

AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#: 0076454
SECTION: 2 of 2

DOCUMENT #: 08-AMCP-0119

TITLE: ADMINISTRATIVE
DECOMMISSIONING FOR
WELLS WITH SURVEYS

699-40-28
A8639

WELL ATTRIBUTES REPORT

WELL ID	A8639	NORTHING	135715.743	FIELD ORDER NO	
WELL NAME	699-40-28	EASTING	581291.814	LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION	164.058	CONST DATE	
GW OPERABLE UNIT	200-PO-1	DRILL DATE	3/31/1980	CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
SURFACE EROSION	<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> ND <input type="checkbox"/> MINOR <input type="checkbox"/> NONE		SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input type="checkbox"/> NONE	
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input checked="" type="checkbox"/> ND <input type="checkbox"/> INSPECTED <input type="checkbox"/> NONE <input type="checkbox"/> REMOVED <input type="checkbox"/> REPLACED <input type="checkbox"/> REPAIRED		PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> INSPECTED <input type="checkbox"/> NONE <input type="checkbox"/> REMOVED <input type="checkbox"/> REPLACED <input type="checkbox"/> REPAIRED	
ACTIVITY PERFORMED BY			ACTIVITY PERFORMED BY		
DATE ACTIVITY PERFORMED			DATE ACTIVITY PERFORMED		
PUMP IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PUMP IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO	
PUMP TYPE			PUMP TYPE		
PUMP MAKE			PUMP MAKE		
PUMP MODEL			PUMP MODEL		
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)		
LAST TUBING INFORMATION			CURRENT TUBING INFORMATION		
TUBING SIZE (in)			TUBING SIZE (in)		
TUBING MATERIAL			TUBING MATERIAL		
TUBING LENGTH (ft)			TUBING LENGTH (ft)		
TUBING CONNECTION			TUBING CONNECTION		
LAST MEASUREMENT INFORMATION			CURRENT MEASUREMENT INFORMATION		
DEPTH TO WATER(ft)			DEPTH TO WATER(ft)		
DEPTH TO WATER DATE			DEPTH TO WATER DATE		
DEPTH TO BOTTOM(ft)			DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE			DEPTH TO BOTTOM DATE		
STICK UP(ft)			STICK UP(ft)		
REFERENCE MARK(ft)			REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO	

WELL ATTRIBUTES REPORT

WELL ID	A8639	NORTHING	135715.743	FIELD ORDER NO	
WELL NAME	699-40-28	EASTING	581291.814	LAST INSPECTION	1/1/1801
OST WELL ID		ELEVATION	164.058	CONST DATE	
GW OPERABLE UNIT	200-PO-1	DRILL DATE	3/31/1980	CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

Well ID	Category	Balance	Debit	Credit	Rate	Pressure	Temperature	Flow	Notes
699-40-21	SW	40093.00	471.36	100.0					
		-21445.00	6.0						
			12/80						
699-40-28	UN	40076.00	534.77						
		-28220.00							
			3/80						
699-40-32	£								
699-40-33A	C								
699-40-33B	I								
699-40-33C									
699-40-36	GW H	135633.84 578789.25	39830.00 -36432.00	528.92 4.0 12/92	280.0 219.5 115.2	S	4.0	209.2 219.5	
699-40-39	GW H	135645.70 577938.50	39877.90 -39224.30	541.84 4.0 8/89	212.0 212.0 125.3	S	4.0	201.0 211.5	
699-40-40A	GW H	135594.31 577680.25	39710.40 -40071.50	541.21 4.0 10/91	227.0 226.1 130.0	S	4.0	215.1 225.9	
699-40-40B	GW H	135609.89 577677.65	39761.40 -40079.80	542.18 4.0 10/91	198.6 198.6 140.6	S	4.0	187.8 198.6	
699-40-62	GW S	40300.00 -61500.00	747.78 8.0 1/49	384.0 364.0 356.0	P P	8.0 8.0	335.0 359.0	348.0 374.0	
699-40-80	AB	39665.00 -79978.00	655.50 6.0 2/82	559.0 550.0					

Hanford Wells

PNL-8800 UC-903

M.A. Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

GOLDER 77

GOLDER 45

CEMENT PLUG AT 165 FT.

699-40-33, 699-40-35

GROUTED

699-40-33C

ABANDONED.

699-40-33B

ALSO ECN 169851

SCREEN

BP-5

TELEPHONE EXCHANGE WELL. CEMENT

PLUG 364-369'

40.3-61.5

BWIP WELL DESTROYED, CAP WELDED

5.5' BELOW GROUND

RRL-9

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A8639	699-40-28	UNKNOWN	NAD83	01/01/1801	CONVERTED	135715.743	581291.814	m	

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMME
A8639	699-40-28	03/31/1980				

SURVEY DATA REPORT

Request No.
81-029

Project No.

Title:
Well Decommissioning A8639

699-40-28

File No.
6AT12R27Job No.
65400811.1225400
CA10Prepared By
Tim JohnsonDate
11/1/2007

Reviewer

Page
1 of 1

DESCRIPTION OF WORK

Attempt to locate Well A8639 at coordinates given. If found obtain coordinate and ground elevation. If different than coordinates given, obtain photo and information for WAR Report. If not found, set hub and lath and search with Schonstedt Metal Dectctor for possible casing. Probe with shovel if signal is detected.

Horizontal Coordinate System: WCS 83S/91 (Meters)

Vertical Datum: NAVD88 (Meters)

Equipment Used: Trimble 5800 GPS receiver..

DISTRIBUTION

SDR

PLOT

DWG

Survey File

OR

B. Howard

1

G.G. Kelty

1

E.C. Rafuse

1

W.D. Webber

1

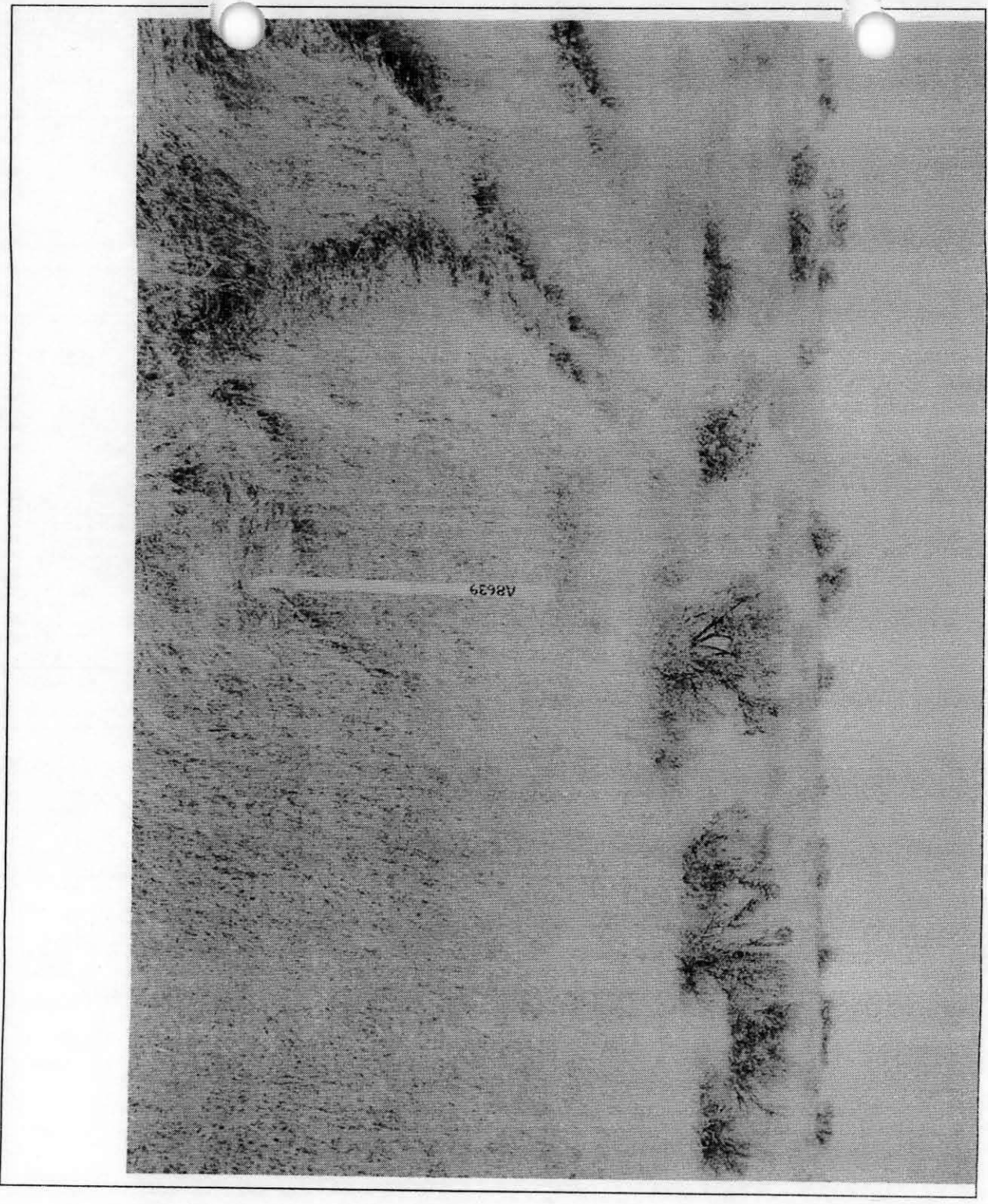
S.H. Worley

1

SURVEY RESULTS AND COMMENTS

<u>Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Description</u>
A8639	135715.74	581291.81	No well found. Set hub and lath. Took photo. No signal detected with metal detector.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.



SCAN DATA REPORT

Request No.:

081-057

Project No.:

Title:

Well Decommissioning A8639

File No. :

600C-001

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

11/1/07

Reviewer:

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan using Schonstedt Metal Detector to attempt to locate possible buried well casing. If signal is detected, probe with shovel. If buried casing is found obtain coordinates with GPS. Take photo. Obtain information for WAR Report. If not found withing reasonable depth, obtain coordinates of signal.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

E.C. Rafuse

1

S.H. Worley

1

B.J. Howard

1

G.G. Kelty

1

W.D. Webber

1

DATE OF FIELD INVESTIGATION: 10/25/2007

Weather: Temp 60°F Wind 5 MPH

☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 5 feet

Equipment Used:

Required Functional Checks

Current/Completed

 50/60 Hz detector (for energized lines)

 Radio Frequency Electromagnetics (RF)

 Ground Penetrating Radar (GPR)

X Other (identify) Schonstedt Metal Detector

☐

☐

☐

☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided:

Limits of Investigation: 20 foot diameter.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

No significant signal was observed.

699-56-26A
A8879

WELL ATTRIBUTES REPORT

WELL ID	A8879	NORTHING	140510.505	FIELD ORDER NO	
WELL NAME	699-56-26A	EASTING	582035.268	LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION	125.736	CONST DATE	
GW OPERABLE UNIT	100-FR-3	DRILL DATE	8/31/1971	CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
SURFACE EROSION	<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> ND <input type="checkbox"/> MINOR <input type="checkbox"/> NONE		SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> MINOR <input type="checkbox"/> NONE	
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input checked="" type="checkbox"/> ND <input type="checkbox"/> INSPECTED <input type="checkbox"/> NONE <input type="checkbox"/> REMOVED <input type="checkbox"/> REPLACED <input type="checkbox"/> REPAIRED		PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> INSPECTED <input type="checkbox"/> NONE <input type="checkbox"/> REMOVED <input type="checkbox"/> REPLACED <input type="checkbox"/> REPAIRED	
ACTIVITY PERFORMED BY			ACTIVITY PERFORMED BY		
DATE ACTIVITY PERFORMED			DATE ACTIVITY PERFORMED		
PUMP IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PUMP IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	
PUMP TYPE			PUMP TYPE		
PUMP MAKE			PUMP MAKE		
PUMP MODEL			PUMP MODEL		
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)		
LAST TUBING INFORMATION			CURRENT TUBING INFORMATION		
TUBING SIZE (in)			TUBING SIZE (in)		
TUBING MATERIAL			TUBING MATERIAL		
TUBING LENGTH (ft)			TUBING LENGTH (ft)		
TUBING CONNECTION			TUBING CONNECTION		
LAST MEASUREMENT INFORMATION			CURRENT MEASUREMENT INFORMATION		
DEPTH TO WATER(ft)			DEPTH TO WATER(ft)		
DEPTH TO WATER DATE			DEPTH TO WATER DATE		
DEPTH TO BOTTOM(ft)			DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE			DEPTH TO BOTTOM DATE		
STICK UP(ft)			STICK UP(ft)		
REFERENCE MARK(ft)			REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND		REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	

WELL ATTRIBUTES REPORT

WELL ID	A8879	NORTHING	140510.505	FIELD ORDER NO	
WELL NAME	699-56-26A	EASTING	582035.268	LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION	125.736	CONST DATE	
GW OPERABLE UNIT	100-FR-3	DRILL DATE	8/31/1971	CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL NAME	COORDINATES	CASING ELEV	DRILL DEPTH	PERF/SCREEN	COMMENTS
WELL TYPE	L 83	WELL DIAM	COMPL DEPTH	TYPE DIAM	PREVIOUS WELL NAMES
PUMP TYPE	NS/EW	DATE COMPL	DEPTH WATER	TOP BOT	
699-56-21A AB		396.02			FILLED IN FARM WELL T-177B
699-56-21B AB		397.57 60.0			FILLED IN FARM WELL T-1766
699-56-23 AB		401.51 36.0			FILLED IN FARM WELL T-1775
699-56-24 AB		409.95 60.0			FILLED IN FARM WELL T-1772
699-56-26A AB	55801.00 -25736.00	409.04 6.0 8/71	25.0		ABANDONED GM-13

Hanford Wells

0 68.0 78.0

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

699-56-26B GW					
699-56-40A SW					GOLDER G-6
699-56-40B SW					GOLDER G-10
699-56-40C GW		611.90 6.0 3/81	480.0 418.0		GOLDER G-12
699-56-41 GW		591.20 6.0 2/81	412.0		GOLDER G-8
699-56-42A GW		532.10 6.0 1/81	245.0		GOLDER G-7
699-56-42B SW		543.90 6.0 2/81	250.0		GOLDER G-9

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A8879	699-56-26A	UNKNOWN	NAD83	01/01/1801	CONVERTED	140510.505	582035.268	m	

SURVEY DATA REPORT

Request No.
81-034

Project No.

Title:
Well Decommissioning A8879

File No.
6AT13R27

Job No.
65400811.1225400
CA10

Prepared By
Larry Henke

Date
10/30/2007

Reviewer

Tim Johnson

Page
1 of 1

DESCRIPTION OF WORK

DISTRIBUTION

SDR

PLOT

DWG

Attempt to locate Well A8879 at coordinates given. If found obtain coordinate and ground elevation. If different than coordinates given, obtain photo and information for WAR Report

Survey File

OR

B. Howard

1

G.G. Kelty

1

E.C. Rafuse

1

W.D. Webber

1

S.H. Worley

1

Horizontal Coordinate System: WCS 83S/91 (Meters)
Vertical Datum: NAVD88 (Meters)

Equipment Used: Trimble 5800 GPS receiver..

SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Elevation
A8879	140510.505	582035.268	123.70

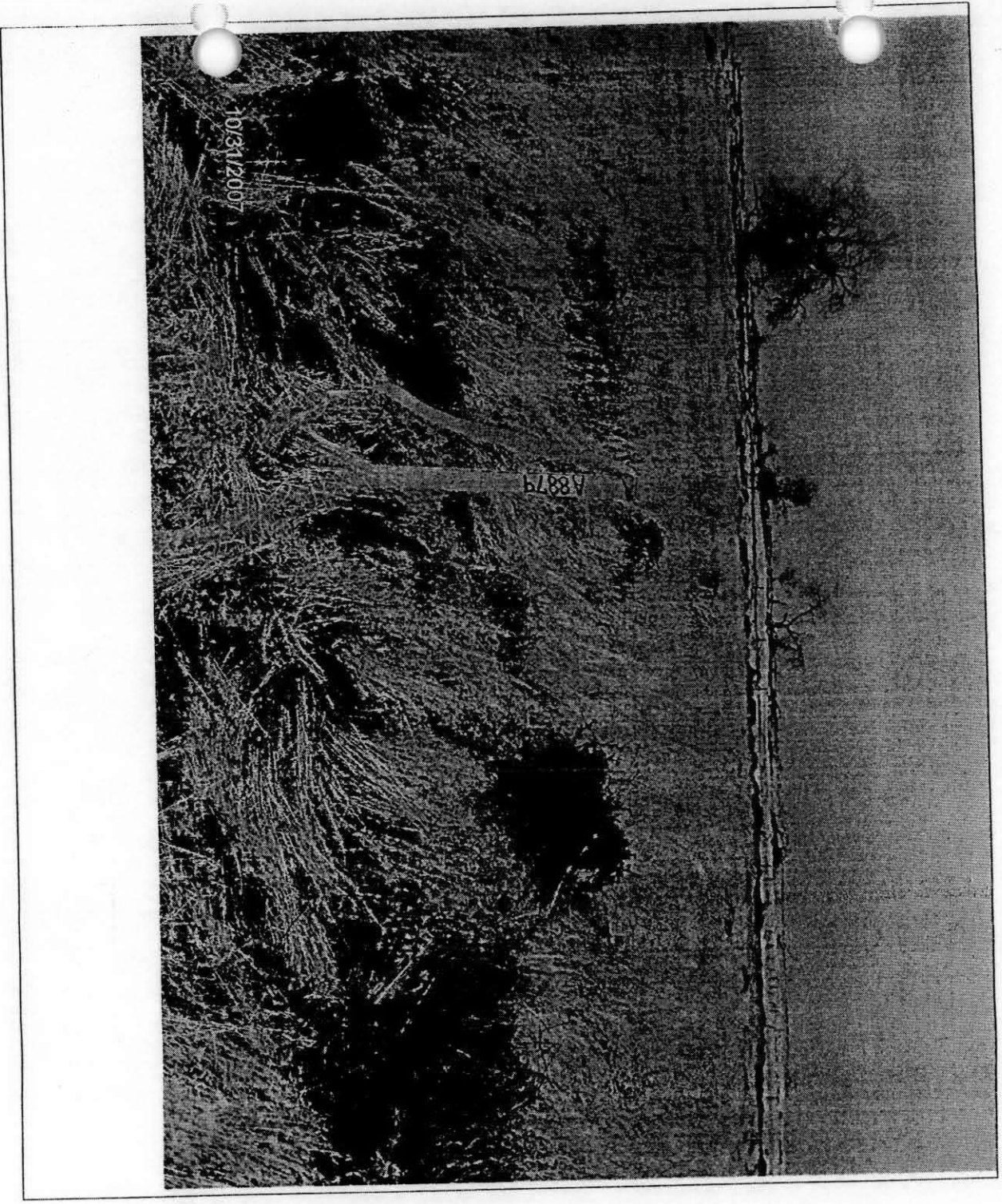
Description

No well found. Set hub and lath. Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

E-NW-246 (09/04)

This information is PROPRIETARY and is provided solely for use in conjunction with work managed and controlled by Fluor Federal Services.



E-NW-246 (09/04)

This information is PROPRIETARY and is provided solely for use in conjunction with work managed and controlled by Fluor Federal Services.

SCAN DATA REPORT

Request No.:
081-051

Project No.:

Title:

Well Decommissioning A8879

File No.:
600C-001

Job No.:
65400811.1225400 CA10

Prepared by:
Larry A Henke

Date:
11/1/07

Reviewer:

Tim John

Page
1 of 1

DESCRIPTION OF WORK:

Perform ground scan using Schonstedt Metal Detector to attempt to locate possible buried well casings. If signal detected probe with shovel. If buried casing found obtain coordinate (C/L Casing) and ground elevation with GPS, take photo.
If not found within reasonable depth obtain coordinate and ground elevation of signal and report.
Obtain information for WAR report. (Dia, steel, pvc, etc.)

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

E.C. Rafuse

1

S.H. Worley

1

B.J. Howard

1

G.G. Kelty

1

W.D. Webber

1

DATE OF FIELD INVESTIGATION:

Weather: Temp 55°F Wind _____ MPH
☐ Cloudy ☐ Clear ☒ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 5 feet

Equipment Used:

☐ 50/60 Hz detector (for energized lines)
☐ Radio Frequency Electromagnetics (RF)
☐ Ground Penetrating Radar (GPR)
☒ Other (identify) Schonstedt Metal Detector

Required Functional Checks Current/Completed

☐
☐
☐
☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: Survey Data Report

Limits of Investigation: Scanned a 50 ft circle around the staked position of well A8879.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

well casing or other type of well were detected within the vicinity of the staked position of well A8879.

Query HWIS again

HWIS Interface - Well History Information - Current Status

WELL_ID	WELL_NAME	STATUS	STATUS_CHANGE_DATE	STATUS_CHANGE_COMMENT
A8879	699-56-26A	CANDIDATE FOR DECOMMISSIONING	05/09/2002	

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMME
A8879	699-56-26A	08/31/1971		25	ft	

699-55-95 (Cont'd)

Material	Thickness	Depth
Clay	40	445
Clay & fine sand	15	460
Sand & clay	10	470
Sand, gravel & clay	10	480
Sand & clay	10	490
Sand, clay & gravel	10	500
Gravel & clay	5	505
Sand, clay, gravel	7	512
Basalt, rock	3	515
Basalt rock	15	530

699-56-26A (GM-13)

Location: N55801, W25736 13/27-22N1
 Casing Elevation: 409.04
 Cable tool, drilled by Evan of Hatch Drilling
 Company for ARHCO, 1971, hydrologic investi-
 gation borehole

Material (1)	Thickness	Depth
Sand	3	3
Broken red rock	1	4
Red rock	15	19
Basalt	6	25

IANFORD WELLS
 PNL-8800 UC-903
 M.A. Channess & J.K. Merz
 August 1993
 Prepared for U.S. Dept of Energy under
 Contract DE-AC06-76RLO 1830
 Pacific NW Lab by Battelle Memorial Institute

JAJ-107 (7-70) REC-01 01000000 0000

JAJ-107 (7-70) ABC-AL MICULASH WASH.

NO SURFACE CONDITIONS CHECKLIST

DATE 8-31-89

REQUIRED CONDITION
ER EII 6.4 SECT. 6.2.1

STATUS

POSTS, 3" IN DIA.
SET IN CONCRETE.
SET IN A 5" DIA. PIPE
TH A MAX. OF 3.5'
ENDING ABOVE THE PAD.

None

4' x 5"
IT DAMAGED?

None

ON A CRIB?)

WELL HEAD

IS IT DAMAGED? *NO*

IS THE SURVEY POINT CLEARLY MARKED? *NO* ☒ *NO*

CASING OD. = *6 5/8* *CS*

ID. = *6"*

Dist To Top from

PAD ☐

14"

WELL CAP

DIA. - SNUG FIT *NO*

SUFFICIENT VERTICLE

CLEARANCE ABOVE PUMP? *—*

LOCKABLE AND LOCKED? *yes/yes*

IF NONE; LIST ID. AND HEIGHT REQUIRED

ID MARKINGS

LEGIBLE? *NO*

PAINTED ON? *NO*

ENGRAVED BRASS MARKER IN PAD? *NO*

WELL SITE

IS AREA FREE OF DEBRIS?

NO - OLD HOME SITE

PAINT

WHAT NEEDS IT?

ALL + STENCIL

NOTES:

Pmp: *Ø*

SUPPORT: *Ø*

TANKS: *Ø*

CHECKS PERFORMED BY:

[Signature]



6-56-26 A

8-30-89

R88

ND SURFACE C

REQUIRED CO
ER EII 6.4 SE

POSTS, 3" IN
SET IN CONCRE
SET IN A 5" D
TH A MAX. OF
TENDING ABOVE

4' x 6"
IT DAMAGED?

ON A CRIB?)

WELL HEAD

IS IT DAMAGED?
IS THE SURVEY P
CASING OD. = 6
ID. = 6

WELL CAP

DIA.- SNUG FIT
SUFFICIENT VERT
CLEARANCE ABOVE

699-65-25
A8959

WELL ATTRIBUTES REPORT

WELL ID	A8959	NORTHING	146517	FIELD ORDER NO	
WELL NAME	699-65-25	EASTING	582487	LAST INSPECTION	1/1/1801
OST WELL ID		ELEVATION	120.247	CONST DATE	
GW OPERABLE UNIT	100-FR-3	DRILL DATE	1/1/1801	CONST DEPTH	

PROGRAMS _____
 WASTE SITES 50FT _____
 WM PLAN(S) _____
 WASTE STORAGE(S) _____

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL PAD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	BRASS SURVEY MARKER	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	PROTECTIVE POSTS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL LOCK	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL DAMAGED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
SURFACE EROSION	<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> ND <input type="checkbox"/> MINOR <input type="checkbox"/> NONE	SURFACE EROSION	<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR <input type="checkbox"/> NONE

LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input checked="" type="checkbox"/> ND <input type="checkbox"/> INSPECTED <input type="checkbox"/> NONE <input type="checkbox"/> REMOVED <input type="checkbox"/> REPLACED <input type="checkbox"/> REPAIRED	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input checked="" type="checkbox"/> INSPECTED <input type="checkbox"/> NONE <input type="checkbox"/> REMOVED <input type="checkbox"/> REPLACED <input type="checkbox"/> REPAIRED
ACTIVITY PERFORMED BY		ACTIVITY PERFORMED BY	<i>8/25 DFG/Gabriel</i>
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED	<i>8/28/07</i>
PUMP IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	PUMP IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO
PUMP TYPE		PUMP TYPE	
PUMP MAKE		PUMP MAKE	
PUMP MODEL		PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	

LAST TUBING INFORMATION		CURRENT TUBING INFORMATION	
TUBING SIZE (in)		TUBING SIZE (in)	
TUBING MATERIAL		TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION		TUBING CONNECTION	

LAST MEASUREMENT INFORMATION		CURRENT MEASUREMENT INFORMATION	
DEPTH TO WATER(ft)		DEPTH TO WATER(ft)	
DEPTH TO WATER DATE		DEPTH TO WATER DATE	
DEPTH TO BOTTOM(ft)		DEPTH TO BOTTOM(ft)	
DEPTH TO BOTTOM DATE		DEPTH TO BOTTOM DATE	
STICK UP(ft)		STICK UP(ft)	
REFERENCE MARK(ft)		REFERENCE MARK(ft)	
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND	REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

WELL ATTRIBUTES REPORT

WELL ID	A8959	NORTHING	146517	FIELD ORDER NO	
WELL NAME	699-65-25	EASTING	582487	LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION	120.247	CONST DATE	
GW OPERABLE UNIT	100-FR-3	DRILL DATE	1/1/1801	CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED
6 x 6 5/8		C/S				

CHANGES *See attached photos*

The casing is in a wooden structure that was possibly the pump stand. The casing is bent over.

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

IN WATER

WELL ATTRIBUTES REPORT

D ORDER NO		LAST INSPECTION	
WELL ID	A8959	NORTHING	146517
WELL NAME	699-65-25	EASTING	582487
HOST WELL ID		ELEVATION	120.247
CONST DATE			
CONST DEPTH			

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> MINOR	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input type="checkbox"/> MINOR
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> ND* <input type="checkbox"/> REMOVED			PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

ND* - Not Documented

6/15/2005

WELL NAME	WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN			COMMENTS PREVIOUS WELL NAMES
		L 83 NS/EW	PLANT NS/EW			TYPE	DIAM	TOP	
699-64-62	GW S		63786.00 -61746.00	500.25 6.0 5/72	116.0 110.5 101.0	S	5.0	90.5 110.5	SCREEN 90.5-110.5 FT. GBM-2
699-65-22	GW B		65006.00 -21528.00	391.10 48.0	32.0 32.0 25.0				T13NR27E15H1, 699-65-21
699-65-23	GW B		64883.00 -22542.00	387.93 54.0	25.0 25.0				T13NR27E15G1
699-65-25	AB			391.01 4.0	26.0				FILLED IN T13NR27E15C1
699-65-38	GW								WELL POINT REF.2 NO.178
699-65-50	GW S						3.0	55.0 125.0	CEMENT PLUG AT 125 FT.
699-65-59A	GW S						8.0	100.0 125.0	PLUG AT 135'; PIEZOMETERS REMOVED 9/74 699-65-59
699-65-59AP	AB		65050.00 -58931.00	507.20 1.5	190.0 190.0 105.0	P	1.5	170.0 190.0	REMOVED
699-65-59B	GW		65060.00 -58940.00	506.00 12.0 4/76	200.0 175.0 108.0	P	12.0	100.0 190.0	
699-65-59C	GW		65050.00 -58940.00	506.00 6.0 5/76	140.0 140.0 108.0	P	6.0	100.0 140.0	
699-65-72	GW S		64452.00 -72156.00	540.28 12.0	216.0 172.0 142.0	P	12.0	137.0 157.0	CEMENT PLUG AT 172 FT. RANCH, REF.2
699-65-83	GW S		64944.00 -82961.00	485.63 6.0 4/67	121.0 117.0 86.0	P	6.0	60.0 120.0	CEMENT PLUG AT 117 FT.

Hanford Wells

PNL-8800 UC-903

M.A. Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A8959	699-65-25	BHI	NAD83(91)	01/01/1801	ESTIMATED	146517	582487	m	P	

Worley, Scott H

From: Worley, Scott H
Sent: Friday, September 07, 2007 8:19 AM
To: Prendergast-Kennedy, Ellen L
Cc: Howard, Bonnie J; Rafuse, Edward C; Gostovich, Dale E
Subject: Well 699-65-25: PNNL Agreement 27647-282 BTR Designation Letter

We have this item listed as "well" 699-65-25 (A8959). The Hanford Wells book lists this structure as a 26' deep well that has been filled in. It is on our list for well decommissioning in FY-08, but I don't think there is much that we could do to remove the pipe/casing if that's what it is. Would you provide your archaeological site report so that we can place the report in the wells D-base and close this well out from future decommissioning ventures?

Thanks for your help and support!

Scott Worley

From: Prendergast-Kennedy, Ellen L [mailto:Ellen.Prendergast@pnl.gov]
Sent: Thursday, September 06, 2007 4:00 PM
To: Worley, Scott H
Cc: Prendergast-Kennedy, Ellen L; Stapp, Darby C
Subject: RE: PNNL Agreement 27647-282 BTR Designation Letter

Scott,
The cultural resources project has recorded this item as an archaeological site and it is not a well. It is described as:

Site consists of a wooden structure that probably drifted in with high water. The structure consists of a large rectangular shape formed from approximately 12 timbers. The rectangle is overlaid with a smaller rectangle in the southeast corner. The smaller rectangle has bolts emerging from its surface every 8 inches or so. The larger rectangle has some sort of value in its' northeast corner. (2.6 x 3.0m).

The object is located in a highly sensitive and undisturbed area. Do you need to do anything with this object?

Thanks
Ellen

From: Worley, Scott H
Sent: Tuesday, August 28, 2007 3:10 PM
To: Adams, M R (Margie)
Cc: Prendergast-Kennedy, Ellen L; Foss, Edward M; Rafuse, Edward C
Subject: FW: PNNL Agreement 27647-282 BTR Designation Letter

Margie,

Need to add \$1,000 to this Work Order to PNNL for cultural resource reviews. (I heard we have a new person to learn this activity.)

Ed Ellen,

We have found a new unknown structure that needs to be investigated by our Cultural Review support group. This structure is listed as well 699-65-25, located south of F-area, but I doubt this structure is a well. please see attached location map and photos of the structure/object.

For more information contact Ed Rafuse.

9/7/2007

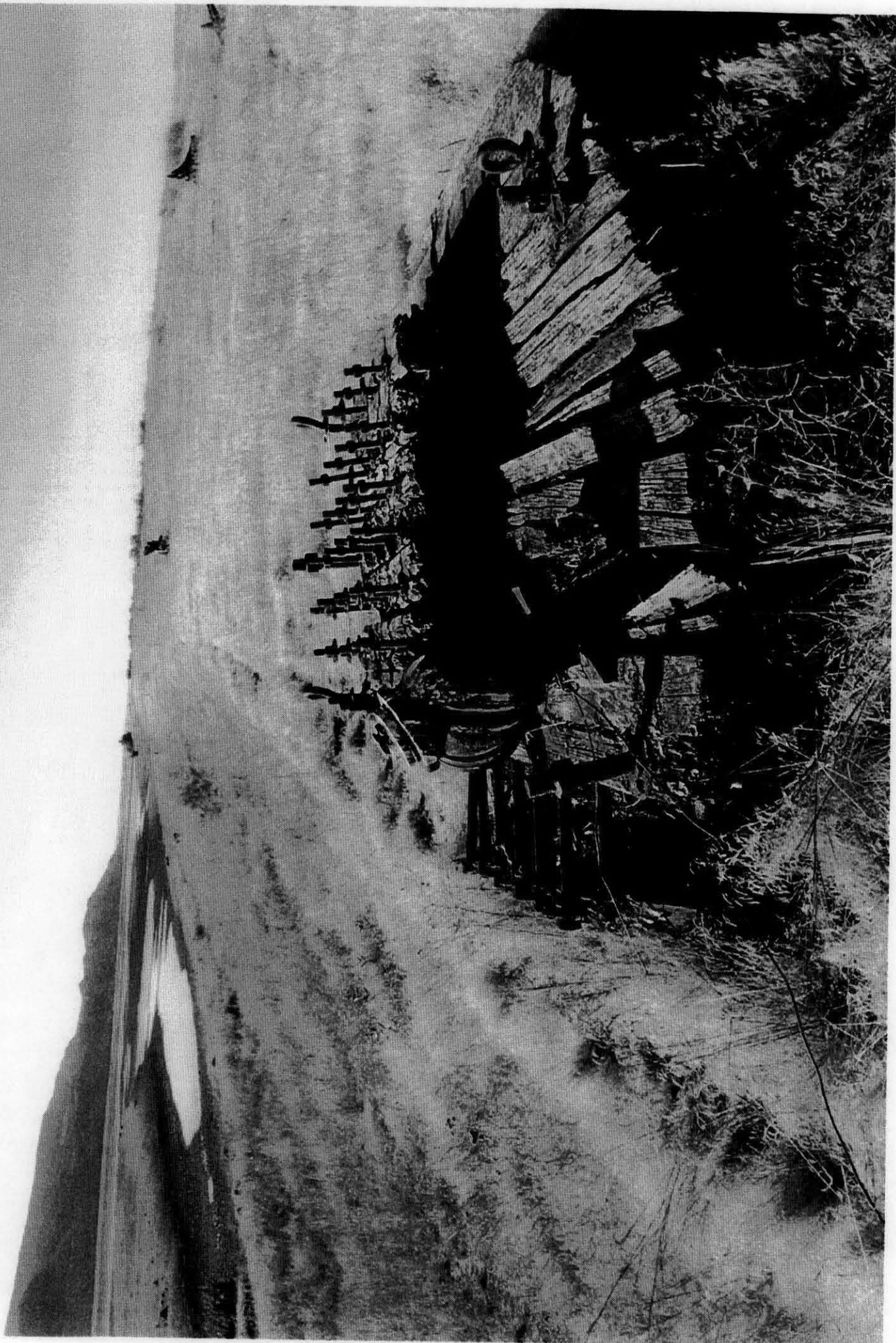
Thanks for your support!

Scorley











Worley, Scott H

From: Mangano, Colleen P
Sent: Monday, June 18, 2007 11:20 AM
To: Worley, Scott H; Howard, Bonnie J
Cc: Rafuse, Edward C
Subject: RE: WAR? 699-65-25
Attachments: WELL ATTRIBUTES REPORT.pdf

Here is the copy of the WAR.

Thank you,

Colleen Mangano
EIS Systems Analyst
509-373-5597 (office)
509-851-9035 (cell)

*7/24/07 spoke to Pele
water to high to reach this
well*

From: Worley, Scott H
Sent: Monday, June 18, 2007 11:16 AM
To: Mangano, Colleen P; Howard, Bonnie J
Cc: Rafuse, Edward C
Subject: WAR? 699-65-25

Colleen,

Do you have a record of generating a WAR for well 699-65-25 (A8959) recently?

The Hanford Wells Book says the well was abandoned after the 4" casing was filled in to a total depth of 26'.

If a WAR has not been generated we will need one for this well. (100-FR-3 Operable Unit)

Thanks for your help!

Scott Worley

6/18/2007

6" WELL BENT 30° ANGLE

A8959 699-65-25



699-65-25 (NOTED) V. LITTLE ROCK NEED R.V. WOLF, LOCATED NO. 01 NANTUCKET MONUMENT 01/20/01

A8959 699-65-25



699-83-60

A9014

*WELL HAS BEEN DECOMMISSIONED
SEE SAN DATA REPORT*

WELL ATTRIBUTES REPORT *ECN 09/18/01*

FIELD ORDER NO _____
 WELL ID **A9014**
 WELL NAME **699-83-60**
 HOST WELL ID _____

CONST DATE _____
 CONST DEPTH _____

LAST INSPECTION **1/1/1801**
 NORTHING **148673.163**
 EASTING **571549.092**
 ELEVATION **141.256**

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> ND*		SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR	
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> ND* <input type="checkbox"/> REMOVED		PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED	
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*		NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*		ACTIVITY PERFORMED BY		
DATE ACTIVITY PERFORMED			DATE ACTIVITY PERFORMED		
PUMP TYPE	ND*		PUMP TYPE		
PUMP MAKE	ND*		PUMP MAKE		
PUMP MODEL	ND*		PUMP MODEL		
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)			TUBING SIZE (in)		
TUBING MATERIAL	ND*		TUBING MATERIAL		
TUBING LENGTH (ft)			TUBING LENGTH (ft)		
TUBING CONNECTION	ND*		TUBING CONNECTION		

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9014

WELL NAME

699-83-60

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

148673.163

EASTING

571549.092

ELEVATION

141.256

MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		NA
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
-------------	-----	--------	---------------

CHANGES

CASING INFORMATION

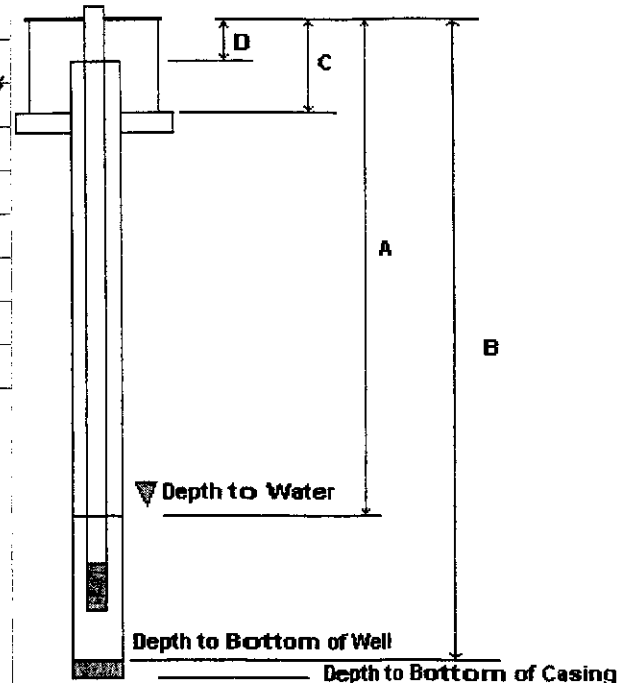
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
------	-----	--------	----------	------	------------	-----------

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
------	-----	--------	----------	------	-----------

CHANGES



- A DEPTH TO WATER FROM TOP OF CASING
- B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
- C TOP OF CASING TO GROUND SURFACE/PAD
- D TOP OF CASING TO SURVEY REFERENCE MARKER

WELL NAME	PUMP TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS
		L 83 NS/EW	PLANT NS/EW	WELL DIAM DATE COMPL	COMPL DEPTH DEPTH WATER	TYPE	DIAM	TOP	
699-82-38	AB			413.00 16.0 12/48	253.0 254.0				FILLED IN T14NR27E30R1
699-82-45A	GW B			413.73 10.0	26.0 26.2 26.0				CONCRETE CASING 699-82-45, REF.2
699-82-45B	AB			419.00 96.0	22.0				FILLED IN 699-82-45A, REF.2
699-82-46	AB			415.00 36.0	17.0				FILLED IN REF.2 NO.112
699-83-5	OS			750.00 8.0	415.0 375.0				14/28-29M1
699-83-11	OS			736.85	99.0				USBR 14/28-30N1
699-83-16	OS			731.92	112.0				USBR 14/27-26R1
699-83-36	GW								DUG WELL
699-83-38	UN								
699-83-47	GW S					35.0	150.0		PLUG AT 85'; PIEZOMETERS REMOVED 6/75
699-83-60	UN		82680.00 -60085.00	459.97					
699-83-61A	GW		82950.00 -61150.00	457.20 12/72	112.0 64.0				BH-12

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
19014	699-83-60	UNKNOWN	NAD83	01/01/1801	CONVERTED	148673.163	571549.092	m	R

SURVEY DATA REPORT

Request No.
074-458

No.

Title:
Well Decommissioning A9014

File No.
6AT14R26

Job No.
65400811.1225400
CA10

Prepared By
Tim Johnson

Date
8/14/2007

Reviewer

[Signature]

Page
1 of 2

DESCRIPTION OF WORK

DISTRIBUTION

SDR

PLOT

DWG

Survey well location for A9014. If found, fill out WAR Report. If not found, set hub and lath. Take photo.

Coordinate System: US State Plane 1983

Zone: Washington South 4602

Project Datum: NAD 1983 (Conus)

Vertical Datum: NAVD 1988

Geoid Model: Geoid03 Units: Meters

Equipment Used: Trimble 5800 GPS RTK Receiver

Survey File

OR

B. Howard

1

C. Wright

1

G. Kelty

1

E. Rafuse

1

W. D. Webber

SURVEY RESULTS AND COMMENTS

Well ID# A9014 was not found at the listed coordinates: N148673.16 E571549.09

Set hub and lath.

T photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT				Request No.: 074-491																																					
Project No.:		Title: SCAN: Well Decommissioning / Well A9014 <i>699-83-60</i>		File No.: 600C-001																																					
Job No.: 65400811.1225400/CA10		Prepared by: Rand Taylor		Date: 9/17/07																																					
		Reviewer: <i>[Signature]</i>		Page 1 of 1																																					
DESCRIPTION OF WORK: Performed a 10' radius scan at staked well location A9014. Note, No well was detected at the staked well site.				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DISTRIBUTION</td> <td style="width: 33%;">SDR</td> <td style="width: 33%;">SKETCH</td> <td style="width: 33%;">DWG</td> </tr> <tr> <td>Survey File</td> <td>OR</td> <td>OR</td> <td></td> </tr> <tr> <td>B.J. Howard</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>E.C. Rafuse</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>G.G. Kelty</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>W.D Webber</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>S.Worley</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">1</td> </tr> </table>		DISTRIBUTION	SDR	SKETCH	DWG	Survey File	OR	OR		B.J. Howard	1	1		E.C. Rafuse	1	1		G.G. Kelty	1	1		W.D Webber	1	1		S.Worley	1	1									1
DISTRIBUTION	SDR	SKETCH	DWG																																						
Survey File	OR	OR																																							
B.J. Howard	1	1																																							
E.C. Rafuse	1	1																																							
G.G. Kelty	1	1																																							
W.D Webber	1	1																																							
S.Worley	1	1																																							
			1																																						
DATE OF FIELD INVESTIGATION: 9/17/07																																									
Weather: Temp <u>75°F</u> Wind <u>5</u> MPH <input type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Clear <input type="checkbox"/> P. Cloudy <input type="checkbox"/> Fog		Soil Conditions: <input checked="" type="checkbox"/> Rocky <input type="checkbox"/> Sandy <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry Depth of Investigation <u>8</u> feet																																							
Equipment Used: <input type="checkbox"/> 50/60 Hz detector (for energized lines) <input type="checkbox"/> Radio Frequency Electromagnetics (RF) <input type="checkbox"/> Ground Penetrating Radar (GPR) <input checked="" type="checkbox"/> Other (identify) Schonstadt		Required Functional Checks Current/Completed <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>																																							
GPR Antenna(s) Used: <input type="checkbox"/> 1000 MHz <input type="checkbox"/> 500 MHz <input type="checkbox"/> 400 MHz <input checked="" type="checkbox"/> 300 MHz																																									
Documentation Provided: None																																									
Limits of Investigation: Performed a 10' radius scan at staked well location A9014.																																									
EQUIPMENT LIMITATIONS: 1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable. 2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.																																									
Discussion of Findings: <div style="text-align: center;">Note, No evidence of the well casing detected in scan area.</div>																																									

Request No.
074-458

Title:
Well Decommissioning A9014

File No.
6AT14R26

Prepared By
Tim Johnson

Date
8/14/2007

Reviewer

Page
1 of 2

DISTRIBUTION

SDR

PLOT

DWG

Survey File

OR

B. Howard

i

C. Wright

1

G. Kelty

1

E. Rafuse

1

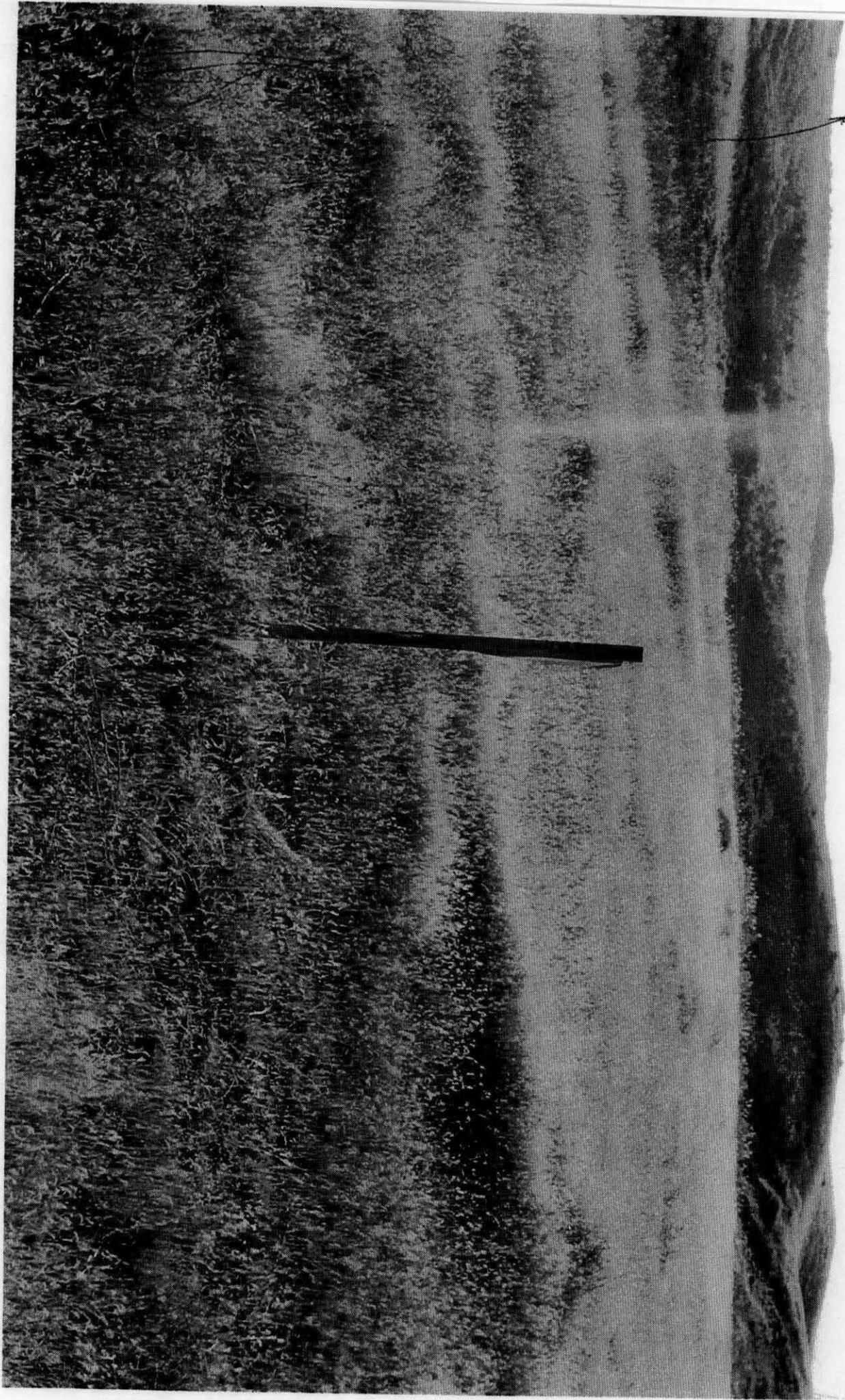
W. D. Webber

Well ID# A9014 was not found at the listed coordinates: N148673.16 E571549.09

Set hub and lath.

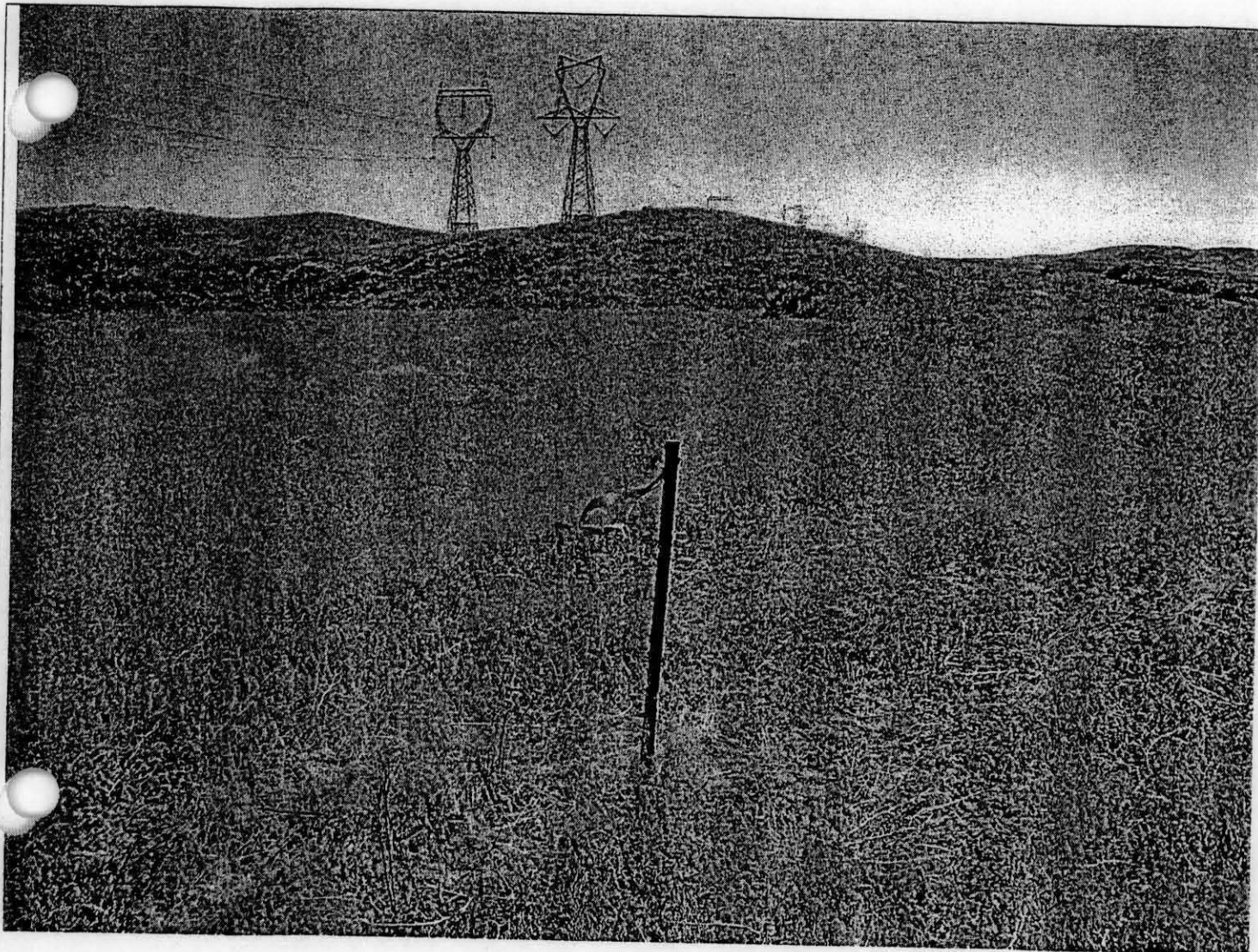
Track photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.



Looking NE

Gravel 100' pad



A9014
699-83-60

SCAN DATA REPORT

699-83.60

Request No.:

074-491

Project No.:

Title:

SCAN: Well Decommissioning / Well A9014

File No.:

600C-001

Job No.:

65400811.1225400/CA10

Prepared by:

Rand Taylor

Date:

9/17/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK:

Performed a 10' radius scan at staked well location A9014.

Note, No well was detected at the staked well site.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

B.J. Howard

1

1

E.C. Rafuse

1

1

G.G. Kelty

1

1

W.D Webber

1

1

S.Worley

1

1

1

DATE OF FIELD INVESTIGATION:

9/17/07

Weather: Temp 75°F Wind 5 MPH

☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☒ Rocky ☐ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

Required Functional Checks

Current/Completed

☐

☐

☐

☒

50/60 Hz detector (for energized lines)

Radio Frequency Electromagnetics (RF)

Ground Penetrating Radar (GPR)

x Other (identify) Schonstadt

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☒ 300 MHz

Documentation Provided: None

Limits of Investigation: Performed a 10' radius scan at staked well location A9014.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings:

Note, No evidence of the well casing detected in scan area.

SURVEY DATA REPORT

Request No.
074-458

Project No.

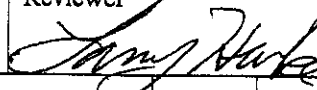
Title:

Well Decommissioning A9014

699-83-60

File No.
6AT14R26Job No.
65400811.1225400
CA10Prepared By
Tim JohnsonDate
8/14/2007

Reviewer

Page
1 of 2

DESCRIPTION OF WORK

DISTRIBUTION

SDR

PLOT

DWG

Survey well location for A9014. If found, fill out WAR Report. If not found, set hub and lath. Take photo.

Coordinate System: US State Plane 1983

Zone: Washington South 4602

Project Datum: NAD 1983 (Conus)

Vertical Datum: NAVD 1988

Geoid Model: Geoid03 Units: Meters

Equipment Used: Trimble 5800 GPS RTK Receiver

Survey File

OR

B. Howard

1

C. Wright

1

G. Kelty

1

E. Rafuse

1

W. D. Webber

SURVEY RESULTS AND COMMENTS

Well ID# A9014 was not found at the listed coordinates: N148673.16 E571549.09

Set hub and lath.

Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

Fastabend, Neil P

From: Rafuse, Edward C
Sent: Tuesday, August 07, 2007 4:39 PM
To: Fastabend, Neil P
Cc: Rafuse, Edward C; Worley, Scott H
Subject: Locate and scan the following wells

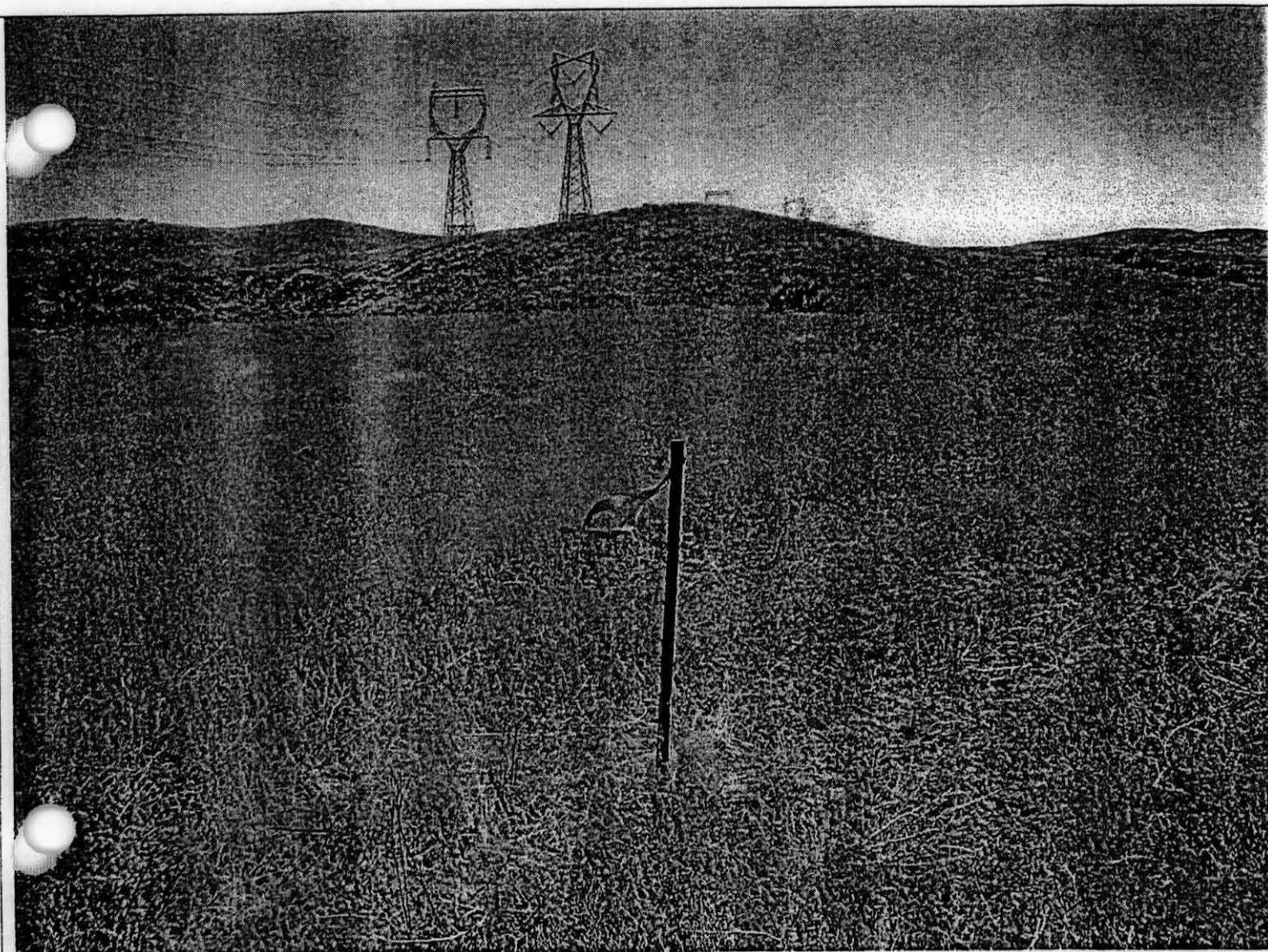
Neil,

Please locate and scan the following wells:

	Northing	Easting
A9014, (699-83-80)	148673.163	571549.092
A9015, (699-83-61A)	148754.653	571224.3
A9016, (699-83-61B)	148617.908	571389.218

The CACN for this work is 122540. If you have any questions, please contact me at 539-3859.

Thanks - - ED



A 9014
699-83-60

<input checked="" type="checkbox"/> Survey <input type="checkbox"/> Scan				SURVEY REQUEST				Request No.			
Project No.		Title				0 7 4 - 0 4 5 8					
		Well Decommissioning: A9014, A9015 & A9016				File No.					
Job No.		Requested By		Phone		6 A T 1 4 R 2 6					
65400811.1225400 CA 10		Ed Rafuse		373-5941 / 539-3859		Date Required					
Field Contact		Organization		Phone		ASAP					
Ed Rafuse		FH		373-5941 / 539-3859		Location					
REFERENCE DOCUMENTS				GRID SYSTEM		DISTRIBUTION					
Email & Photo w/wells plotted locations				<input checked="" type="checkbox"/> Lambert		Survey File					
				<input type="checkbox"/> Plant		E.C. Rafuse					
				<input type="checkbox"/> Area		G.G. Kelly					
				<input type="checkbox"/> Geographic		B.J. Howard					
LOCATION OF WORK				WORK CONDITIONS		W.D. Webber					
South of 100N / 600A				<input type="checkbox"/> SWP							
				<input type="checkbox"/> Mask							
				<input type="checkbox"/> Operator							
				<input type="checkbox"/> Exclusion Entry							
SPECIAL INSTRUCTIONS											
DESCRIPTION OF WORK											
ITEM											
1.		Attempt to locate wells at coordinates given. If found, obtain information for WAR report.									
		If not found stake location and prepare Survey Data Report. Make copy for preparation of Scan Request.									
Prepared By				Date		Reviewed By					
N.P. Fastabend				8/10/07							
NOTES/COMMENTS											
Lead Surveyor/Crew											
Date:		Signature:									

Fastabend, Neil P

From: Rafuse, Edward C
Sent: Tuesday, August 07, 2007 4:39 PM
To: Fastabend, Neil P
Cc: Rafuse, Edward C; Worley, Scott H
Subject: Locate and scan the following wells

Neil,

Please locate and scan the following wells:

	Northing	Easting
A9014, (699-83-60)	148673.163	571549.092
A9015, (699-83-61A)	148754.653	571224.3
A9016, (699-83-61B)	148617.908	571389.218

The CACN for this work is 122540. If you have any questions, please contact me at 539-3859.

Thanks - - ED

8/7/07



699-83-60 (BH-16)
 Location: N82680, W60085 14/26-28Q1
 Casing Elevation: 459.97
 Rotary (to 514 ft.) & diamond coring, drilled
 by Soil Sampling Service & Longyear Company
 & logged by Fugro for WPPSS, 1973, WNP-1
 bedrock geologic investigation borehole

Material (37)	Thickness	Depth
Sand; fine, gravelly, few large cobbles, medium-brown		
Gravel, sandy, silty; poorly graded, large clasts mostly basalt, rounded, clay & caliche coated		
Gravel, sandy silty, poorly graded, cobbles up to 3 1/2 in. diameter, overall color is dark-medium-tan-gray, grains have "clay coating;" gravel & cobbles; subrounded to round, over 90% basalt clasts, sand; fine to coarse, subangular to subrounded, nonindurated	57	57
Gravel & cobble fragments up to 3 1/2 in. diameter, clasts subrounded to round, 90%+ basalt w/minor quartzite, overall color is medium-tan-gray, grains have a "clay coating"		
Gravel & cobbles up to 4 in. or more, subrounded to round, all clasts are basalt		
Gravel, sandy; large clasts are basalt; rounded; sand is subangular, fine to coarse grained; cuttings are of large basalt clasts		
Gravel, sandy, poorly graded; gravel 80% rounded, basalt w/minor quartzite, porphyritic andesite & acid igneous rocks; sand 20% fine to coarse, subangular, overall color is medium-tan-gray		
Gravel, sand, & rock cuttings; abundant quartzite fragments		
Gravel, very sandy, poorly graded, nonindurated, overall color is light-medium-tan-gray; gravel: rounded, clasts are quartzite, gneiss, greenstone, minor basalt; sand: quartz, subangular, fine to coarse	51	108

HANFORD WELLS
 PNL-8800 UC-903
 M.A. Chamness & J.K. Metz
 August 1993
 Prepared for U.S. Dept of Energy under
 Contract DE-AC06-76RLO 1830
 Pacific NW Lab by Battelle Memorial Institute

(cont)

terial (37)	Thickness	Depth
; silty w/sand & a few ieces of gravel ... ; silty, dense, ceous, fine to medium, y micaceous, abundant agnesian minerals, h-tan ... ; silty, weakly ed, tan w/patches of ay & one quartzite 3 1/2 in. diameter ... ; argillaceous, weakly d tan ... ltstone; weakly d, moderately hard, rown ... tstone; moderately d, moderately hard, very fine grain sandltstone & ... ltstone; moderately d, moderately hard, lcareous concretionary ... ndy siltstone; ely cemented, ely hard, brown; breaks y ... wn to orange-brown ts of tuffaceous ne ... ltstone; weakly d, moderately hard, -brown; broken surfaces uffaceous ... ; very fine grain, graded, subangular, cemented, friable, rown; "oxidized" rusty- aminae & intermittent yers denote low-angle eds; micaceous, iceous ...	229	337

IANFORD WELLS
PNL-8800 UC-903
M.A. Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-83-60 (cont)

Material (37)	Thickness	Depth
Silty claystone; weakly cemented, moderately hard, olive-green, inter-crossed w/light-green bands giving "septarian" appearance, waxy tuffaceous	16	514
Sandy pebble conglomerate; sand fraction: medium to coarse grain, subangular, moderately well sorted, moderately to weakly indurated, reddish-brown stained	10	524
Basalt	117	641
Baked (?) tuff to clayey siltstone: moderately indurated (upper 0.6 ft. possibly baked), light-tan to olive-drab, thin bedded, moderately fractured; gas (?) pockets give somewhat vuggy appearance; lower 1 ft. weakly indurated; highly tuffaceous .	6	647
Sandstone; medium grain, angular to subangular, uniformly graded, weakly indurated, reddish-brown, low-angle cross-beds, little fractured; fractures filled w/light-gray, waxy clay . . .	8	655
Interbedded sandstone & siltstone; weakly indurated, gray, cross-bedded, tuffaceous . . .	2	657
Sandstone; medium to coarse grain, subangular to sub-rounded, well graded, moderately indurated, reddish-brown; cross-bedded, light-tan to gray clay intervals increase in thickness & frequency (from every 1.5 ft. to every 3 in.) down section	10	667
Silty claystone: weakly indurated, brownish-gray; a few clayey sand intervals in upper & lower 1 ft.; tuffaceous	11	678

LANFORD WELLS
PNI-8800 UC-903
M.A. Channess & J.K. Metz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-83-60 (cont)

Material (37)	Thickness	Depth
Clayey siltstone: moderately indurated, gray-brown to reddish-brown; scattered clay-lined tubules	10	688
Claystone: moderately indurated, gray-brown, tuffaceous	2	690
Mega conglomerate: well graded, moderately indurated tan to black; highly vesicular basalt cobbles (6 in. diameter) w/interstitial, splochy gray to tan, tuffaceous clay to clay clasts; red "zones" around isolated basalt cobbles	6	696
Basalt	174	870
Silty claystone: weakly indurated, soft, dark-olive-gray grades reddish-brown, tuffaceous	4	874
Siltstone: moderately indurated, medium-gray, tuffaceous	4	878
Claystone to slightly silty claystone: weakly indurated soft to moderately hard, light-olive-gray w/some brown mottling, tuffaceous	7	885

IANFORD WELLS
PNL-8800 UC-903
M.A. Channess & J.K. Metz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-83-60 (cont)

Material (37)	Thickness	Depth
Siltstone grades to sandy siltstone: weakly indurated, olive-gray mottled brown, tuffaceous, micaceous	36	921
Siltstone: moderately indurated, olive-gray mottled brown, tuffaceous		
Sandy siltstone: moderately indurated, horizontally streaked olive-brown & gray, micaceous, tuffaceous, horizontal laminations		
Siltstone: moderately indurated, dark-gray-black tuffaceous . .		
Claystone-siltstone (?): very poor recovery, tuffaceous, olive-tan to olive-brown . . .		
Claystone: weakly indurated (soft), dark-olive-green . . .		
Clayey sandy siltstone: moderately indurated, dark- olive-green, tuffaceous, micaceous		
Sandstone: fine grained, well graded, subangular to sub- rounded, moderately indurated, dark-olive-green	56	967
Basalt		
Sandy pebble conglomerate: well graded, chalcedony cemented, well indurated, gray w/black pebbles, highly tuffaceous . .	1	968
Basalt	69	1,001

HANFORD WELLS
PNL-8800 UC-903
M.A. Chamness & J.K. Merz
August 1993
Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830
Pacific NW Lab by Battelle Memorial Institute

699-83-61A
A9015

WELL HAS BEEN DECOMMISSIONED
SEE SURVEY DATA REPORT 08/18/07
EWA

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID A9015

WELL NAME 699-83-61A

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION 1/1/1801

NORTHING 148754.653

EASTING 571224.3

ELEVATION 140.412

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO		
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO		
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO		
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO		
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO		
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO		
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO		
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO		
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO		
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR		
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> ND* <input type="checkbox"/> REMOVED	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO		
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO		
ACTIVITY PERFORMED BY	ND*	ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*	PUMP TYPE			
PUMP MAKE	ND*	PUMP MAKE			
PUMP MODEL	ND*	PUMP MODEL			
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)		TUBING SIZE (in)			
TUBING MATERIAL	ND*	TUBING MATERIAL			
TUBING LENGTH (ft)		TUBING LENGTH (ft)			
TUBING CONNECTION	ND*	TUBING CONNECTION			

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID A9015

WELL NAME 699-83-61A

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION 1/1/1801

NORTHING 148754.653

EASTING 571224.3

ELEVATION 140.412

MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		NA
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
-------------	-----	--------	---------------

NGES

CASING INFORMATION

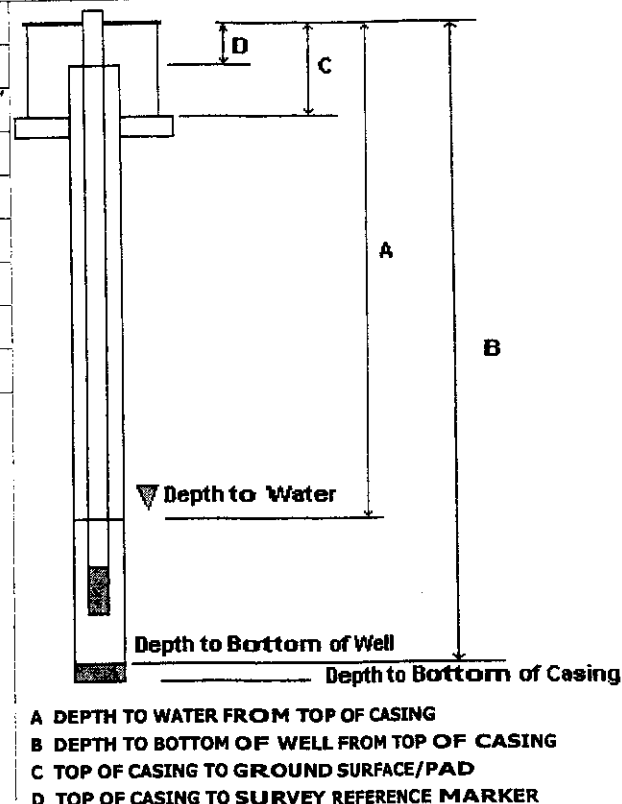
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
------	-----	--------	----------	------	------------	-----------

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
------	-----	--------	----------	------	-----------

CHANGES



WELL NAME WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN			COMMENTS PREVIOUS WELL NAMES
	L 83 NS/EW	PLANT NS/EW			TYPE	DIAM	TOP BOT	
699-82-38 AB			413.00 16.0 12/48	253.0 254.0				FILLED IN T14NR27E30R1
699-82-45A GW B			413.73 10.0	26.0 26.2 26.0				CONCRETE CASING 699-82-45, REF.2
699-82-45B AB			419.00 96.0	22.0				FILLED IN 699-82-45A, REF.2
699-82-46 AB			415.00 36.0	17.0				FILLED IN REF.2 NO.112
699-83-5 OS			750.00 8.0	415.0 375.0				14/28-29M1
699-83-11 OS			736.85	99.0				USBR 14/28-30N1
699-83-16 OS			731.92	112.0				USBR 14/27-26R1
699-83-36 GW		83000.00 -36000.00	418.63	42.0 41.0				DUG WELL
<p align="center">Hanford Wells <u>PNL-8800</u> UC-903 M.A.Chamness & J.K. Merz August 1993 Prepared for U.S. Dept of Energy under Contract DE-AC06-76RLO 1830 Pacific NW Lab by Battelle Memorial Institute</p>								
699-83-38 UN								
699-83-47 GW S								
699-83-60 UN		-60085.00						
699-83-61A GW		82950.00 -61150.00	457.20 12/72	112.0 64.0				BH-12
					35.0	150.0		PLUG AT 85'; PIEZOMETERS REMOVED 6/75

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CO
A9015	699-83-61A	UNKNOWN	NAD83	01/01/1801	CONVERTED	148754.653	571224.3	m		C

SURVEY DATA REPORT				Request No. 074-458	
Project No.		Title: Well Decommissioning A9015		File No. 6AT14R26	
Job No. 65400811.1225400 CA10		Prepared By Tim Johnson	Date 8/14/2007	Reviewer <i>Larry Webb</i>	Page 1 of 2
DESCRIPTION OF WORK			DISTRIBUTION	SDR	PLOT
Survey well location for A9015. If found, fill out WAR Report. If not found, set hub and lath. Take photo. Coordinate System: US State Plane 1983 Zone: Washington South 4602 Project Datum: NAD 1983 (Conus) Vertical Datum: NAVD 1988 Geoid Model: Geoid03 Units: Meters Equipment Used: Trimble 5800 GPS RTK Receiver			Survey File	OR	
			B. Howard	1	
			C. Wright	1	
			G. Kely	1	
			E. Rafuse	1	
			W. D. Webber		

SURVEY RESULTS AND COMMENTS

Well ID# A9015 was not found at the listed coordinates: N148754.65 E571224.30
 Set hub and lath.

Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

699-83-614

Request No.:
074-491

File No.:
600C-001

Project No.:

Title:

SCAN: Well Decommissioning / Well A9015

Job No.:
65400811.1225400/CA10

Prepared by:
Rand Taylor

Date:
9/17/07

Reviewer:

[Signature]

Page
1 of 1

DESCRIPTION OF WORK:

Performed a 10' radius scan at staked well location A9015.

Note, A signal was detected 3' east of the staked well location and marked with a 18" stake.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

B.J. Howard

1

1

E.C. Rafuse

1

1

G.G. Kelty

1

1

W.D Webber

1

1

S.Worley

1

1

2

DATE OF FIELD INVESTIGATION: 9/17/07

Weather: Temp 75°F Wind 5 MPH
☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☒ Rocky ☐ Sandy ☐ Wet ☒ Dry
Depth of Investigation 8 feet

Equipment Used:

- ☐ 50/60 Hz detector (for energized lines)
- ☐ Radio Frequency Electromagnetics (RF)
- ☐ Ground Penetrating Radar (GPR)
- ☒ Other (identify) Schonstadt

Required Functional Checks

Current/Completed

- ☐
- ☐
- ☐
- ☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☒ 300 MHz

Documentation Provided: None

Limits of Investigation: Performed a 10' radius scan at staked well location A9015.

EQUIPMENT LIMITATIONS:

1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

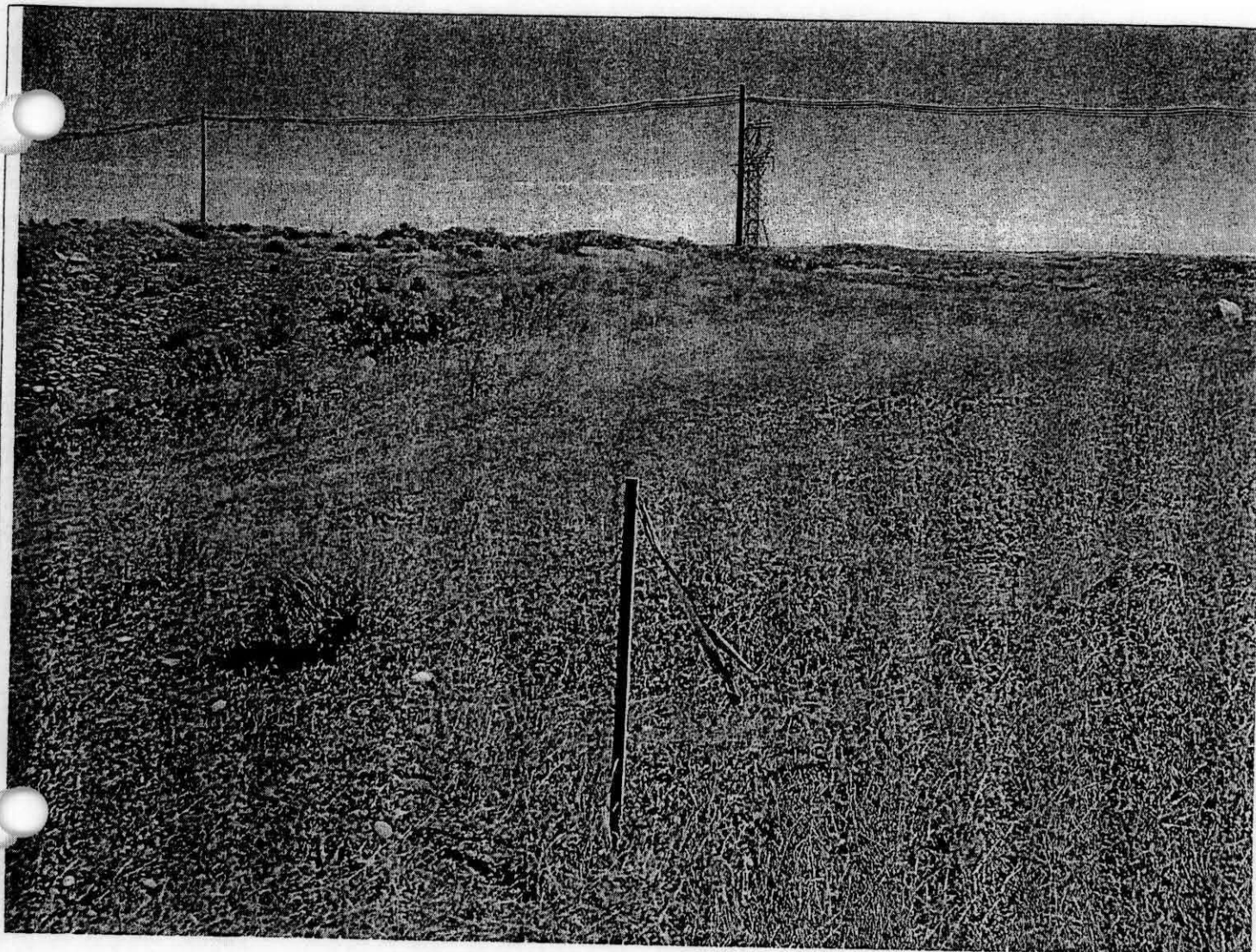
Discussion of Findings:

Note, A strong signal was detected 3' east of the staked well location..



Looking Northwest

100 ft
facility



A9015
699-83-61A

699-83-61B
A9016

*WELL HAS BEEN DECOMMISSIONED
SEE SCAN REPORT ECU 09/18/07*

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID **A9016**

WELL NAME **699-83-61B**

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION **1/1/1801**

NORTHING **148617.908**

EASTING **571389.218**

ELEVATION **145.197**

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO		
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO		
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO		
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO		
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO		
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO		
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO		
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO		
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO		
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR		
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> ND* <input type="checkbox"/> REMOVED	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO		
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO		
ACTIVITY PERFORMED BY	ND*	ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*	PUMP TYPE			
PUMP MAKE	ND*	PUMP MAKE			
PUMP MODEL	ND*	PUMP MODEL			
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)		TUBING SIZE (in)			
TUBING MATERIAL	ND*	TUBING MATERIAL			
TUBING LENGTH (ft)		TUBING LENGTH (ft)			
TUBING CONNECTION	ND*	TUBING CONNECTION			

ND* - Not Documented

7/28/2006

WELL ATTRIBUTES REPORT

WELL ORDER NO

WELL ID A9016

WELL NAME 699-83-61B

HOST WELL ID _____

CONST DATE _____

CONST DEPTH _____

LAST INSPECTION 1/1/1801

NORTHING 148617.908

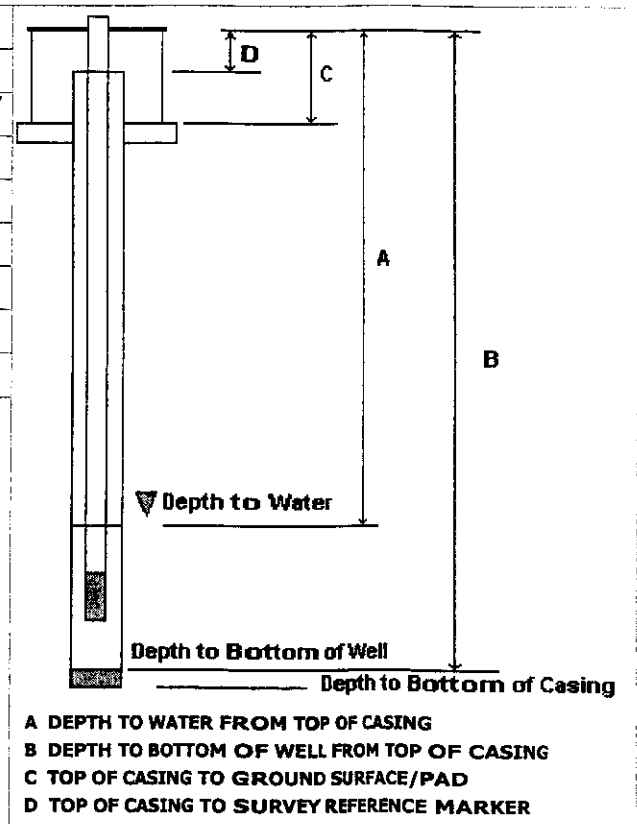
EASTING 571389.218

ELEVATION 145.197

MEASUREMENT INFORMATION		
	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		ND
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND* <input type="checkbox"/> YES <input type="checkbox"/> NO	

PERFORATION INFORMATION			
CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES



CASING INFORMATION						
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION					
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

WELL NAME WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN				COMMENTS
	L 83 NS/EW	PLANT NS/EW	WELL DIAM DATE COMPL	COMPL DEPTH DEPTH WATER	TYPE	DIAM	TOP	BOT	PREVIOUS WELL NAMES
699-83-61B GW		82500.00 -60610.00	472.90 12/72	117.0 77.0					BH-14
699-84-16 OS									USBR
699-84-20 OS									14/27-26J1
699-84-33 UN									USBR OBSERVATION WELL
699-84-34A AB									14/27-26M1
699-84-34B BW		84482.00 -33705.00	392.55 3.0 2/81	3355.0 3328.0					DUG WELL; FILLED IN.
699-84-35A GW B		83999.00 -34996.00	400.05 8.0 10/62	370.0 360.0 25.0	P	8.0	10.0	355.0	14/27-29K1, 699-84-34
699-84-35AO GW B		83999.00 -34996.00	400.33 1.5 5/65	40.0 103.0 24.0	P	1.5	10.0	355.0	3" CASING TO 1085 FT.
699-84-35AP GW		83999.00 -34996.00	400.28 1.5 6/63	351.0 338.0 9.0	P	1.5	325.0	351.0	DC-14
699-84-35AQ GW		83999.00 -34996.00	400.28 1.5	25.0	P	1.5	255.0	281.0	PIEZOMETERS INSTALLED 6/63
699-84-35AR GW		83999.00 -34996.00	400.28 1.5 6/63	217.0 25.0	P	1.5	191.0	217.0	699-84-35
699-84-35AS GW		83999.00 -34996.00	400.28 1.5 6/63	153.0 25.0	P	1.5	127.0	153.0	

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
19016	699-83-61B	UNKNOWN	NAD83	01/01/1801	CONVERTED	148617.908	571389.218	m	R

Howard, Bonnie J

From: Worley, Scott H
Sent: Monday, September 24, 2007 6:39 AM
To: Fastabend, Neil P; Taylor, Rand N; Howard, Bonnie J; Rafuse, Edward C
Subject: RE: Wells A9014, A9015 & A9016.pdf - Adobe Reader

Sounds good. Can the comment be added about probing 12" but didn't find anything be added to future reports? Mr. Rafuse probed 12" and found gravel too. I guess this one need to be called gone.

Thanks Neil and Rand,

Scott Worley

From: Fastabend, Neil P
Sent: Thursday, September 20, 2007 7:41 AM
To: Worley, Scott H; Taylor, Rand N; Howard, Bonnie J; Rafuse, Edward C
Subject: RE: Wells A9014, A9015 & A9016.pdf - Adobe Reader

Scott,

Typically if we don't find a casing at the surface at the time we're out there with GPS we will stake the location and do an investigation with the Schoenstedt Metal Detector. We've had pretty good success finding some casings just under the surface with this. If we find a casing within 12 inches of the surface we'll get a location on it. If we don't, we'll send the scan crew out to investigate.

In particular case the surveyor didn't detect the signal that the scan crew found. The scan crew got a strong signal 3' from the staked position and probed with a shovel down about 12 inches but didn't find anything but some gravel, which may indicate the ground may have been previously disturbed.

*Neil P. Fastabend
Fluor Government Group
372-1740 / 438-5584*

From: Worley, Scott H
Sent: Wednesday, September 19, 2007 3:07 PM
To: Taylor, Rand N; Howard, Bonnie J; Rafuse, Edward C; Fastabend, Neil P
Subject: RE: Wells A9014, A9015 & A9016.pdf - Adobe Reader

Neil and Rand,

Thanks for the scan report and staking the signal location. Would it be possible to probe the signal with a shovel blade or something to try and determine what the signal could be? It seems, it could be more efficient to try to identify the signal while your there rather than having Ed or someone drive back out shovel/probe around, find the casing or signal and then make a new request to you to have the signal surveyed.

If there's issues with this please let me know.

Are there other efficiency's you can see, please share.

Thanks for your support!

Scott Worley

SURVEY DATA REPORT

Request No.
074-458

Project No.
Title:
Well Decommissioning A9016

699-83-61B

File No.
6AT14R26

Job No.
5400811.1225400
CA10

Prepared By
Tim Johnson

Date
8/14/2007

Reviewer

[Signature]

Page
1 of 2

DESCRIPTION OF WORK

DISTRIBUTION

SDR

PLOT

DWG

Survey well location for A9016. If found, fill out WAR Report. If not found,
set hub and lath. Take photo.

Coordinate System: US State Plane 1983

Zone: Washington South 4602

Project Datum: NAD 1983 (Conus)

Vertical Datum: NAVD 1988

Geoid Model: Geoid03 Units: Meters

Equipment Used: Trimble 5800 GPS RTK Receiver

Survey File

OR

B. Howard

1

C. Wright

1

G. Kelty

1

E. Rafuse

1

W. D. Webber

SURVEY RESULTS AND COMMENTS

Well ID# A9016 was not found at the listed coordinates: N148617.91 E571389.22

Set hub and lath.

Took photo.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

699-83-618
Request No.: 074-1

Project No.: 65400811.1225400/CA10	Title: SCAN: Well Decommissioning / Well A9016	File No.: 600C-001
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Job No.: 65400811.1225400/CA10	Prepared by: Rand Taylor	Date: 9/17/07	Reviewer: <i>[Signature]</i>	Page 1 of 1
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DESCRIPTION OF WORK: Performed a 10' radius scan at staked well location A9016. Note, No well was detected at the staked well site.	DISTRIBUTION	SDR	SKETCH	DWG
	Survey File	OR	OR	
	B.J. Howard	1	1	
	E.C. Rafuse	1	1	
	G.G. Kely	1	1	
	W.D Webber	1	1	
	S.Worley	1	1	
				3

DATE OF FIELD INVESTIGATION: 9/17/07	
Weather: Temp 75°F Wind 5 MPH <input type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Clear <input type="checkbox"/> P. Cloudy <input type="checkbox"/> Fog	Soil Conditions: <input checked="" type="checkbox"/> Rocky <input type="checkbox"/> Sandy <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry Depth of Investigation 8 feet

Equipment Used: <input type="checkbox"/> 50/60 Hz detector (for energized lines) <input type="checkbox"/> Radio Frequency Electromagnetics (RF) <input type="checkbox"/> Ground Penetrating Radar (GPR) <input checked="" type="checkbox"/> Other (identify) Schonstadt	Required Functional Checks Current/Completed <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
---	--

GPR Antenna(s) Used:	<input type="checkbox"/> 1000 MHz	<input type="checkbox"/> 500 MHz	<input type="checkbox"/> 400 MHz	<input checked="" type="checkbox"/> 300 MHz
----------------------	-----------------------------------	----------------------------------	----------------------------------	---

Documentation Provided: None

Limits of Investigation: Performed a 10' radius scan at staked well location A9016.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

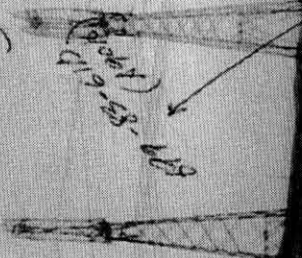
Discussion of Findings:

Note, No evidence of the well casing was detected in scan area.

off 6-6-61 11-11-61 were shown 1000 ft. deep

1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep
1000 ft. deep

Looking NE





A9016

699-83-61B



191NE

C312

C313

C314

C315

C316

C317

C318

C319

C320

C321

C322

C323

C324

C325

C326

C327

C328

C329

C330

C331

C332

C333

C334

C335

C336

C337

C338

199-N-72

199-N-73

199-N-74

199-N-75

199-N-76

199-N-77

199-N-78

199-N-79

199-N-80

199-N-81

199-N-82

199-N-83

199-N-84

199-N-85

199-N-86

199-N-87

199-N-88

199-N-89

199-N-90

199-N-91

199-N-92

199-N-93

199-N-94

199-N-95

199-N-96

199-N-97

199-N-98

199-N-99

199-N-100

199-N-101

199-N-102

199-N-103

199-N-104

199-N-105

199-N-106

199-N-107

199-N-108

199-N-109

199-N-110

199-N-111

199-N-112

199-N-113

199-N-114

199-N-115

199-N-116

199-N-117

199-N-118

199-N-119

199-N-120

199-N-121

199-N-122

199-N-123

199-N-124

199-N-125

199-N-126

199-N-127

199-N-128

199-N-129

199-N-130

699-86-37

A9058

SEE PLAN REPORT. NO WELL LOCATED IN
VICINITY OF STAKED WELL. WELL DECOM.

ECN
10/16/07

WELL ATTRIBUTES REPORT

WELL ORDER NO
WELL ID A9058
WELL NAME 699-86-37
HOST WELL ID

CONST DATE
CONST DEPTH

LAST INSPECTION 1/1/1801
NORTHING 149465
EASTING 578731
ELEVATION 122.984

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO		
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO		
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO		
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO		
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO		
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO		
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO		
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO		
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO		
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO		
SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR		
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> ND* <input type="checkbox"/> REMOVED	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO		
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO		
ACTIVITY PERFORMED BY	ND*	ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED		DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*	PUMP TYPE			
PUMP MAKE	ND*	PUMP MAKE			
PUMP MODEL	ND*	PUMP MODEL			
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)		TUBING SIZE (in)			
TUBING MATERIAL	ND*	TUBING MATERIAL			
TUBING LENGTH (ft)		TUBING LENGTH (ft)			
TUBING CONNECTION	ND*	TUBING CONNECTION			

WELL DECOMMISSION

WELL ATTRIBUTES REPORT

ELD ORDER NO
WELL ID A9058
WELL NAME 699-86-37
HOST WELL ID

CONST DATE
CONST DEPTH

LAST INSPECTION 1/1/1801
NORTHING 149465
EASTING 578731
ELEVATION 122.984

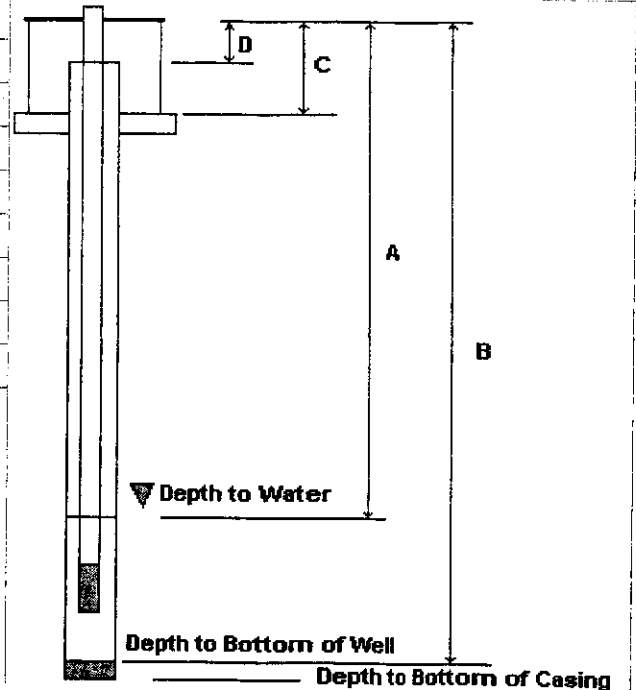
MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE TOP BOTTOM CUTS/FT/ROUND

CHANGES



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

WELL NAME	COORDINATES	CASING ELEV	DRILL DEPTH	PERF/SCREEN	COMMENTS
WELL TYPE	L 83	PLANT	WELL DIAM	COMPL DEPTH	
PUMP TYPE	NS/EW	NS/EW	DATE COMPL	DEPTH WATER	PREVIOUS WELL NAMES
				TYPE DIAM TOP BOT	
699-86-36B			150.0		SHOT HOLE
SW			8.0		
			12/84	32.0	
699-86-37			400.00	42.0	FILLED IN
AB			60.0		T14NR27E29E1
699-86-42					DUG WELL
GW					T14NR27E30E1
699-86-60					ABANDONED AND SEALED.
AB				8.0 50.0 500.0	
699-86-64					6" TO 60'
GW					BH-18
699-86-95			648.0	P 24.0 492.0 503.0	NOT LOCATED
GW			24.0		14/25-28E1
699-87-2			820.00		ED WELL
OS			8.0		14/28-29B1, MICHEL
699-87-23			70.0		USBR
OS					14/27-27A1
699-87-24			68.0		USBR OBSERVATION WELL
OS			2.0		14/27-27Q1
699-87-37			410.00		FILLED IN
AB			48.0	42.0	REF.2 NO.92
699-87-40			410.00		FILLED IN
AB			60.0	43.0	14/27-30C1
699-87-42A			39.0		DUG WELL
GW			41.0		14/27-30D2, REF.2

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

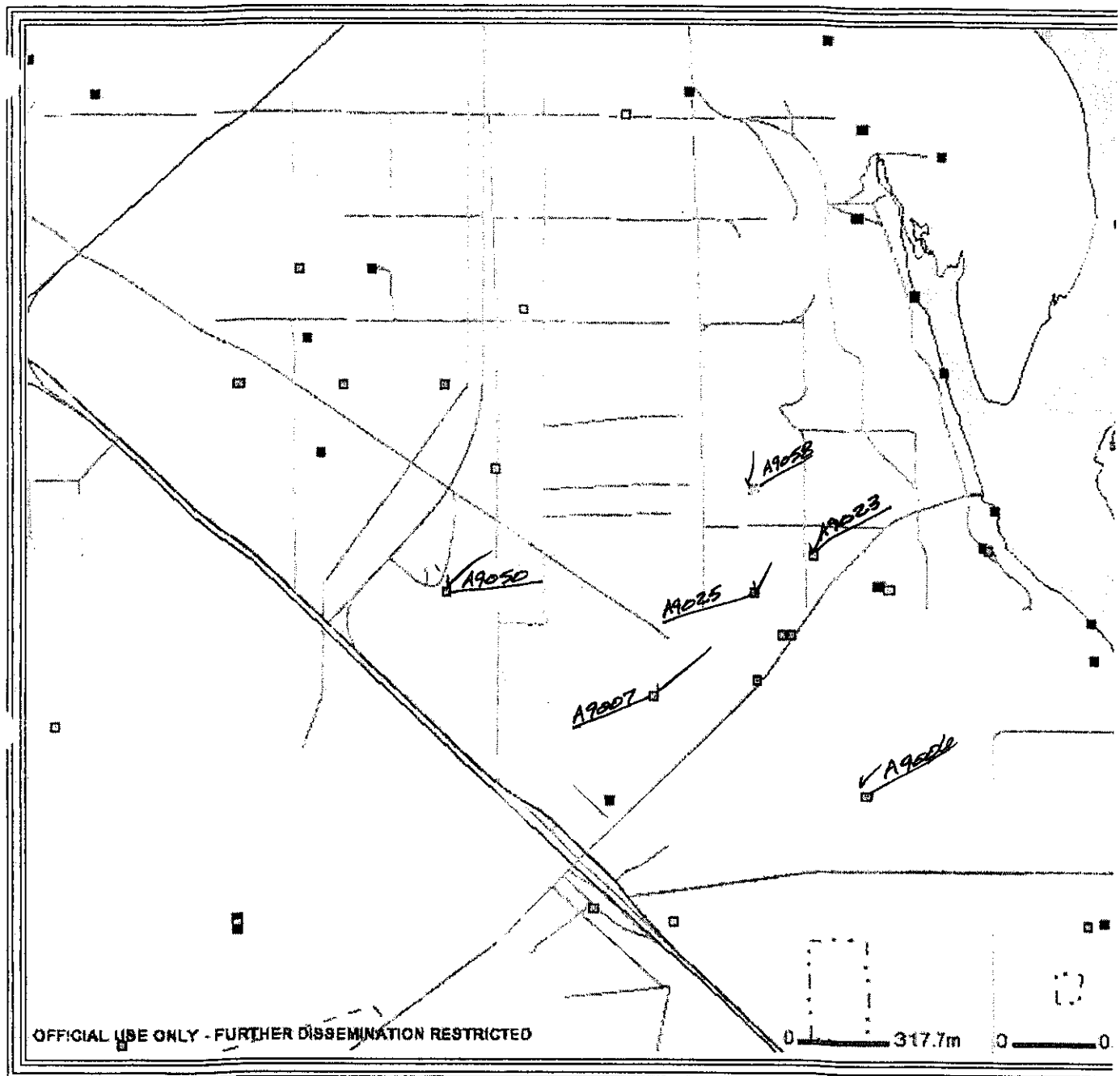
HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9058	699-86-37	BHI	NAD83(91)	01/01/1801	ESTIMATED	149465	578731	m	P	

SCAN DATA REPORT

699-86-37

Project No.:		Title: Well Decommissioning: A9058 (Ground Scan)		Request No.: 073-327	
Job No.: 65400811.1225400 CA10		Prepared by: Tim Johnson		File No.: 600C-001	
Date: 9/26/07		Reviewer: <i>[Signature]</i>		Page 1 of 1	
DESCRIPTION OF WORK: Perform ground scan (20' x 20' Area) around staked location of Well A9058 in attempt to locate possible buried casings.				DISTRIBUTION	
				SDR	
				SKETCH	
				DWG	
				Survey File	
				OR	
				OR	
				S.H. Worley	
1					
B.J. Howard					
1					
E.C. Rafuse					
1					
G.G. Kelty					
1					
W.D. Webber					
1					
DATE OF FIELD INVESTIGATION: 9/20/2007					
Weather: Temp 70°F Wind 5 MPH		Soil Conditions: <input type="checkbox"/> Rocky <input checked="" type="checkbox"/> Sandy <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry			
<input type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Clear <input type="checkbox"/> P. Cloudy <input type="checkbox"/> Fog		Depth of Investigation 8 feet			
Equipment Used:			Required Functional Checks		
50/60 Hz detector (for energized lines)			Current/Completed		
Radio Frequency Electromagnetics (RF)			<input type="checkbox"/>		
Ground Penetrating Radar (GPR)			<input type="checkbox"/>		
<input checked="" type="checkbox"/> Other (identify) Magnetic Locator (Schonstedt)			<input checked="" type="checkbox"/>		
GPR Antenna(s) Used: <input type="checkbox"/> 1000 MHz <input type="checkbox"/> 500 MHz <input type="checkbox"/> 400 MHz <input type="checkbox"/> 300 MHz					
Documentation Provided: None					
Limits of Investigation: 20' x 20' area centered on staked position of well.					
EQUIPMENT LIMITATIONS:					
1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.					
2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.					
Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.					
Note: No evidence of well casing detected in scan area.					



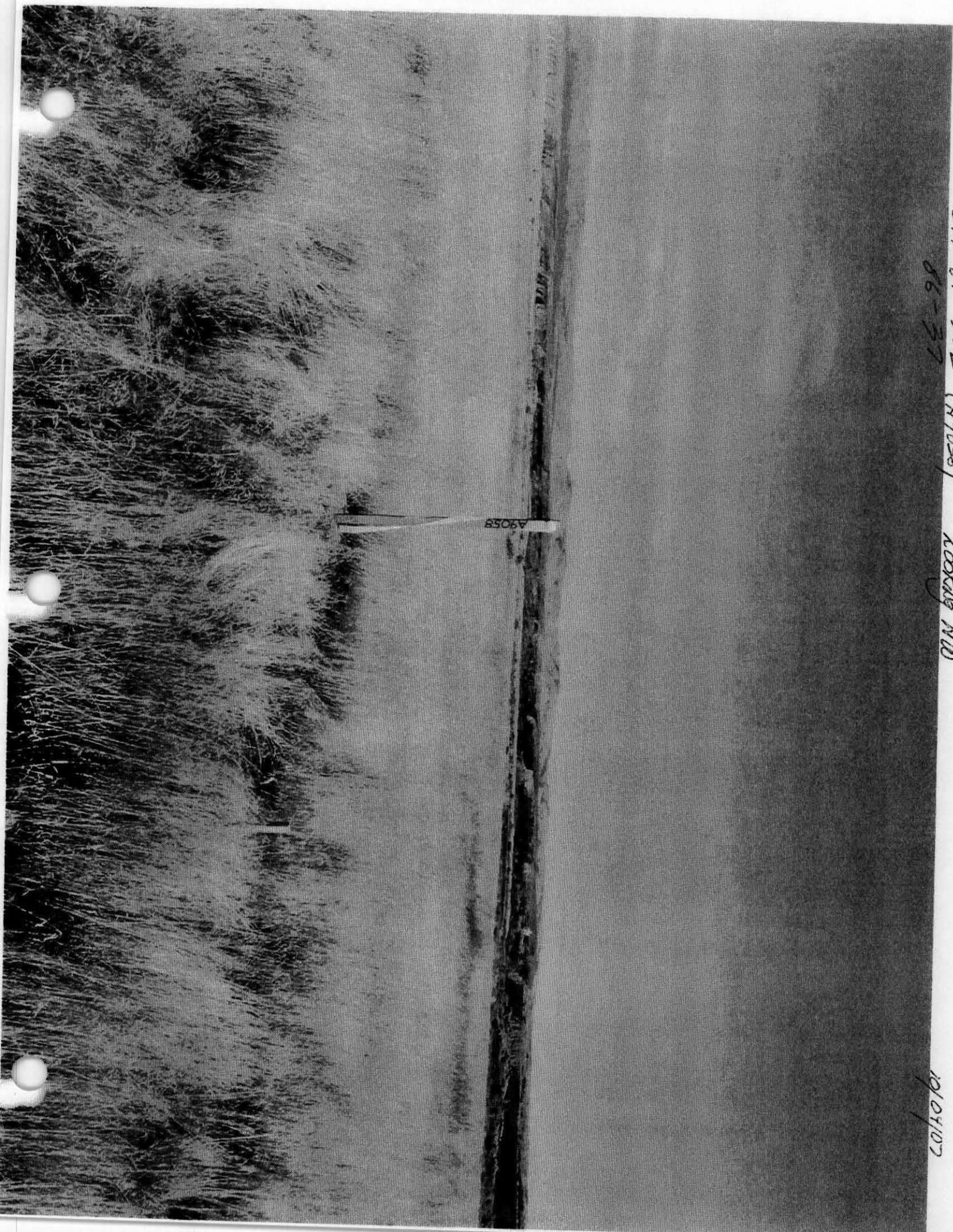
699-86-37 (A9058)



644-275 (49058) 596-28-119
86-37
ST LOOKING

644-84-348 (A9058)
86-37 looking NW

19/01/07



699-90-49

A9077

SEE SCAN & DATA REPORT - WELL
 DECOMM. & SEE PHOTOS 8/10/2007

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9077

WELL NAME

699-90-49

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151137

EASTING

575074

ELEVATION

129.383

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
- SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
LLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	
	<input type="checkbox"/> MINOR	<input checked="" type="checkbox"/> ND*			<input type="checkbox"/> MINOR		
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input checked="" type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED		
	<input type="checkbox"/> REMOVED				<input type="checkbox"/> REPLACED		
					<input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

ND* - Not Documented

7/28/2006

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9077

WELL NAME

699-90-49

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151137

EASTING

575074

ELEVATION

129.383

MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)	54	
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
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NGES

CASING INFORMATION

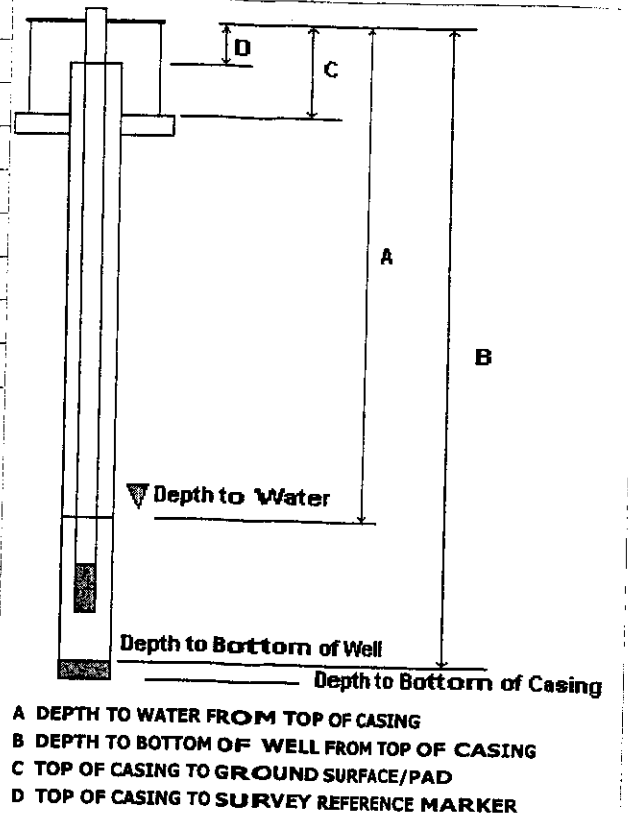
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
------	-----	--------	----------	------	------------	-----------

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
------	-----	--------	----------	------	-----------

CHANGES



WELL NAME	WELL TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS
		L 83	PLANT			WELL DIAM	COMPL DEPTH	DEPTH WATER	
PUMP TYPE	NS/EW	NS/EW	DATE COMPL						PREVIOUS WELL NAMES
699-90-37A GW				414.00 24.0	32.0				REF.2 NO.103, 699-90-37
699-90-37B GW		90373.00 -37341.00		422.93 12.0	50.0 53.0 50.0				12" CORR. LINER 14/27-19H2, 699-91-37
699-90-38 GW				418.40 12.0	41.0 43.0 41.0				12" CORR. LINER 14/27-19H1, REF.2
699-90-45 GW S	151024.76 576169.58	90358.40 -44906.00		421.60 6.0	42.0 43.0 38.0	P	6.0	37.0 42.0	#20 SCREEN 37-42 FT. 699-90-44
699-90-47 AB				424.87 48.0	47.0				FILLED IN T14NR26E24E1
699-90-49 AB				421.00 60.0	45.0 54.0				FILLED IN T14NR26E23H1
699-91-43 GW									199-91-43
699-91-45 AB									FILLED IN T14NR26E24C1
699-91-46 GW						4.0	23.0	43.8	100-HR-3 OP. UNIT
699-91-48A AB		91474.00 -47878.00		424.30 60.0	38.0 35.0				FILLED IN 699-92-48A
699-91-48B AB				431.77 60.0	42.0				FILLED IN 699-92-48B
699-92-14 OS		92000.00 -14000.00		862.01 12.0 11/53	1396.0 1394.0 385.0	P	12.0	945.0 1392.0	ARMY CAMP WELL 14/27-24C1, PSN

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under
Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

IWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9077	699-90-49	BHI	NAD83(91)	01/01/1801	ESTIMATED	151137	575074	m	P	

SURVEY DATA REPORT

Request No.
074-507

Job No. 65400811.1225400 CA10	Title: Well Decommissioning: A9077 / 699-90-49	File No. 6AT14R26
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Prepared By Tim Johnson	Date 9/24/2007	Reviewer <i>[Signature]</i>	Page 1 of 1
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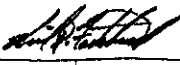
DESCRIPTION OF WORK	DISTRIBUTION	SDR	PLOT	DWG
Stake or locate Well A9077 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well. Horizontal Datum: WCS83S/91 (Meters) Vertical Datum: NAVD88 (Meters) Equipment Used: Trimble GPS 5800 RTK	Survey File	OR		
	S.H. Worley	1		
	B.J. Howard	1		
	E.C. Rafuse	1		
	G.G. Kely	1		
	W.D. Webber	1		

SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9077	151137	575074	130.38	Set hub and lath at coordinates given.
A9077	151134.98	575073.28	130.33	Observed old stake labeled A9077.

NOTE: An old stake labeled A9077 was observed at coordinates shown above. See photo. No evidence of a well was found.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT				Request No.: 074-509	
No.: _____		Title: Well Decommissioning: A9077 (Ground Scan) / <u>699-90-49</u>		File No.: 600C-001	
Job No.: 65400811.1225400 CA10		Prepared by: Tim Johnson		Date: 9/25/07	Reviewer: 
				Page 1 of 1	
DESCRIPTION OF WORK: Perform ground scan (20' x 20' Area) around staked location of Well A9077 in attempt to locate possible buried casings.				DISTRIBUTION	SDR
				Survey File	OR
				S.H. Worley	1
				B.J. Howard	1
				E.C. Rafuse	1
				G.G. Kelty	1
				W.D. Webber	1
DATE OF FIELD INVESTIGATION: 9/20/2007					
Weather: Temp <u>70°F</u> Wind <u>5</u> MPH			Soil Conditions: <input type="checkbox"/> Rocky <input checked="" type="checkbox"/> Sandy <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry		
<input type="checkbox"/> Cloudy <input checked="" type="checkbox"/> Clear <input type="checkbox"/> P. Cloudy <input type="checkbox"/> Fog			Depth of Investigation <u>8</u> feet		
Equipment Used: <u> </u> 50/60 Hz detector (for energized lines) <u> </u> Radio Frequency Electromagnetics (RF) <u> </u> Ground Penetrating Radar (GPR) <u> X </u> Other (identify) Magnetic Locator (Schonstedt)			Required Functional Checks Current/Completed <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		
GPR Antenna(s) Used: <input type="checkbox"/> 1000 MHz <input type="checkbox"/> 500 MHz <input type="checkbox"/> 400 MHz <input type="checkbox"/> 300 MHz					
Documentation Provided: None					
Limits of Investigation: 20' x 20' area centered on staked position of well.					
EQUIPMENT LIMITATIONS:					
1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable. 2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.					
Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.					
Note: No evidence of well casing detected in scan area.					

699-90-49

49077

699-40-48

(11/01/77)

WEE Dream.

04/25/07

49077

699-91-45
A9079

SEE SURVEY, SCAN & PHOTO
WELL DELONIA. 10/20/07
ELU

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9079

WELL NAME

699-91-45

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151539

EASTING

575879

ELEVATION

129.081

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> MINOR	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input type="checkbox"/> MINOR
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input checked="" type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REMOVED
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

ND* - Not Documented

7/28/2006

SEE SURVEY, SCAN # PHOTO
WELL DECOM. 12/1/07
E.C.

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9079

WELL NAME

699-91-45

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151539

EASTING

575879

ELEVATION

129.081

MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)	45	
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

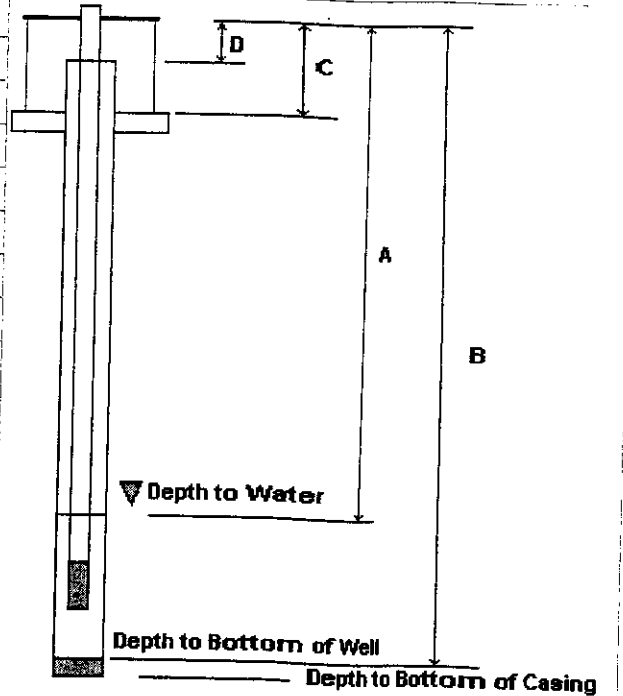
CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
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CHANGES

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
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CHANGES



- A DEPTH TO WATER FROM TOP OF CASING
- B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
- C TOP OF CASING TO GROUND SURFACE/PAD
- D TOP OF CASING TO SURVEY REFERENCE MARKER

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
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CHANGES

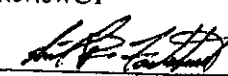
WELL NAME	WELL TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS	
		L 83	PLANT			WELL DIAM	COMPL DEPTH	TYPE		DIAM
PUMP TYPE	NS/EW	NS/EW	DATE COMPL	DEPTH WATER					PREVIOUS WELL NAMES	
699-90-37A GW				414.00 24.0	32.0					REF.2 NO.103, 699-90-37
699-90-37B GW		90373.00 -37341.00		422.93 12.0	50.0 53.0 50.0					12" CORR. LINER 14/27-19H2, 699-91-37
699-90-38 GW				418.40 12.0	41.0 43.0 41.0					12" CORR. LINER 14/27-19H1, REF.2
699-90-45 GW S	151024.76 576169.58	90358.40 -44906.00		421.60 6.0	42.0 43.0 38.0	P	6.0	37.0	42.0	#20 SCREEN 37-42 FT. 699-90-44
699-90-47 AB				424.87 48.0	47.0					FILLED IN T14NR26E24E1
699-90-49 AB				421.00 60.0	45.0 54.0					FILLED IN T14NR26E23H1
699-91-43 GW										199-91-43
699-91-45 AB				420.00 72.0	45.0 45.0					FILLED IN T14NR26E24C1
699-91-46 GW							4.0	23.0	43.8	100-HR-3 OP. UNIT
<p align="center">Hanford Wells <u>PNL-8800</u> UC-903 M.A.Chamness & J.K. Merz August 1993 Prepared for U.S. Dept of Energy under Contract DE-AC06-76RLO 1830 Pacific NW Lab by Battelle Memorial Institute</p>										
699-91-48A AB										FILLED IN 699-92-48A
699-91-48B AB										FILLED IN 699-92-48B
699-92-14 OS		92000.00 -14000.00		862.01 12.0 11/53	1396.0 1394.0 385.0	P	12.0	945.0	1392.0	ARMY CAMP WELL 14/27-24C1, PSN

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9079	699-91-45	BHI	NAD83(91)	01/01/1801	ESTIMATED	151539	575879	m	P	

SURVEY DATA REPORT

Request No.
074-507

Project No. 65400811.1225400 CA10	Title: Well Decommissioning: A9079 / 699-91-45	File No. 6AT14R26	
Prepared By Tim Johnson	Date 9/24/2007	Reviewer 	Page 1 of 1

DESCRIPTION OF WORK

Stake or locate Well A9079 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well.

Horizontal Datum: WCS83S/91 (Meters)

Vertical Datum: NAVD88 (Meters)

Equipment Used: Trimble GPS 5800 RTK

DISTRIBUTION	SDR	PLOT	DWG
Survey File	OR		
S.H. Worley	1		
B.J. Howard	1		
E.C. Rafuse	1		
G.G. Kelty	1		
W.D. Webber	1		

SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Ground Elevation	Description
A9079	151539	575879	128.90	Set hub and lath at coordinates given.
A9079	151539.06	575880.85	128.88	Observed old stake labeled A9079.

NOTE: An old stake labeled A9079 was observed at coordinates shown above. See photo. No evidence of a well was found.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

Request No.:

074-509

Project No.:

Title:

Well Decommissioning: A9079 (Ground Scan) /699-91-45

File No.:

600C-001

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

9/25/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9079 in attempt to locate possible buried casings.

DISTRIBUTION	SDR	SKETCH	DWG
Survey File	OR	OR	
S.H. Worley	1		
B.J. Howard	1		
E.C. Rafuse	1		
G.G. Kelty	1		
W.D. Webber	1		

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH
☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

☐ 50/60 Hz detector (for energized lines)
☐ Radio Frequency Electromagnetics (RF)
☐ Ground Penetrating Radar (GPR)
☒ Other (identify) Magnetic Locator (Schonstedt)

Required Functional Checks
 Current/Completed

☐
☐
☐
☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

54-16-669



694-41-45 (N4079) WELL DECOM. LOOKING NORTH

9/29/07

699-92-47
A9083

SEE PLAN, SURVEY & PHOTO.
WELL DECOMM: 10/10/07
SEE

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9083

WELL NAME

699-92-47

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151545

EASTING

575474

ELEVATION

129.08

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	
	<input type="checkbox"/> MINOR	<input checked="" type="checkbox"/> ND*			<input type="checkbox"/> MINOR		
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input checked="" type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	
	<input type="checkbox"/> REMOVED				<input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

ND* - Not Documented

7/28/2006

SEE SCAN, SURVEY & PHOTOS
WELL DECOM. 8/10/07
WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9083

WELL NAME

699-92-47

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151545

EASTING

575474

ELEVATION

129.08

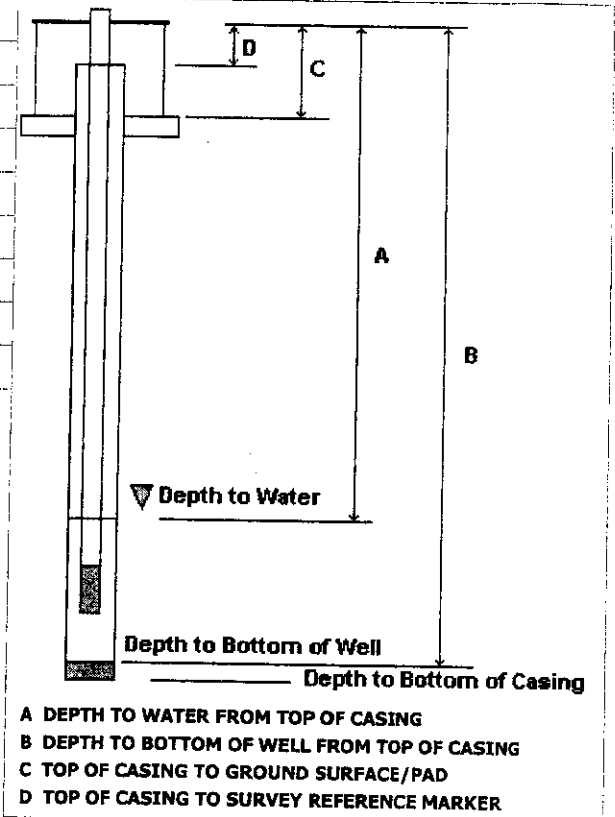
MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
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CHANGES



CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
------	-----	--------	----------	------	------------	-----------

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
------	-----	--------	----------	------	-----------

CHANGES

WELL NAME	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS
WELL TYPE	L 83	PLANT	WELL DIAM	COMPL DEPTH				
PUMP TYPE	NS/EW	NS/EW	DATE COMPL	DEPTH WATER	TYPE	DIAM	TOP	BOT
PREVIOUS WELL NAMES								
699-92-47	AB		420.00	49.0				
			56.0					FILLED IN
								T14NR26E24D1
699-92-49	GW							
	B							
699-93-37	AB							
699-93-46	GW							
699-93-48	GW	151795.52 92905.60	437.79	83.0	S	4.0	41.2	62.3
		575094.32 -48426.60	4.0	62.3				
			4/92	52.9				
699-93-49	AB		405.22	58.0				
			60.0					
								FILLED IN
								T14NR26E14Q1
699-93-49B	GW							
699-93-50	AB	92871.00	446.00					
		-49884.00	60.0					
								FILLED IN
699-93-93	OS		637.01	520.0	P	20.0	262.0	516.0
			20.0	515.5				
			4/53	235.0				
								ARMY CAMP WELL
								14/24-21B1, PSN
699-94-47	AB		420.00					
			48.0					
								FILLED IN
								14/26-13M1
699-94-48	AB		424.30	39.0				
			60.0					
								FILLED IN
								14/26-13M1, N.RUN
699-96-43	GW	152605.54 95550.40	421.84	40.2	S	4.0	32.4	48.5
		576761.65 -42949.90	4.0	48.5				
			4/92	38.4				
								100-HR-3 OP. UNIT
								699-91-43

Hanford Wells

PNL-8800 UC-903

M.A. Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

IWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9083	699-92-47	BHI	NAD83(91)	01/01/1801	ESTIMATED	151545	575474	m	P	

SURVEY DATA REPORT

Request No.
074-507

Project No. A	Title: Well Decommissioning: A9083 / 699-92-40	File No. 6AT14R26
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson	Date 9/24/2007
Reviewer <i>[Signature]</i>		Page 1 of 1

DESCRIPTION OF WORK	DISTRIBUTION	SDR	PLOT	DWG
Stake or locate Well A9083 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well. Horizontal Datum: WCS83S/91 (Meters) Vertical Datum: NAVD88 (Meters) Equipment Used: Trimble GPS 5800 RTK	Survey File	OR		
	S.H. Worley	1		
	B.J. Howard	1		
	E.C. Rafuse	1		
	G.G. Kelty	1		
	W.D. Webber	1		

SURVEY RESULTS AND COMMENTS

<u>Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Ground Elevation</u>	<u>Description</u>
A9083	151545	575474	130.78	No evidence of well found at coordinates given. Set hub & lath.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

Request No.:
074-509

Project No.:

A

Title:

Well Decommissioning: A9083 (Ground Scan) / 699-92-4⁷

File No.:

600C-001

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

9/25/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x 20' Area) around staked location of Well A9083 in attempt to locate possible buried casings.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

W.D. Webber

1

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH

☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

☐ 50/60 Hz detector (for energized lines)

☐ Radio Frequency Electromagnetics (RF)

☐ Ground Penetrating Radar (GPR)

☒ Other (identify) Magnetic Locator (Schonstedt)

Required Functional Checks

Current/Completed

☐

☐

☐

☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

A9083

699-92-47

699-92-46 (A 9083)

looking South
W. corner.

09/25/07

A 9083

699-93-37

A9084

SEE SIGN REPORT & PHOTO. NO WELL FOUND
IN AREA WHERE WELL WAS STAKED. WELL
DECOMM. ETC. 10/16/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO		LAST INSPECTION	1/1/1801
WELL ID	A9084	NORTHING	151728.77
WELL NAME	699-93-37	EASTING	578432.709
HOST WELL ID		ELEVATION	122.78
CONST DATE			
CONST DEPTH			

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	
	<input type="checkbox"/> MINOR	<input checked="" type="checkbox"/> ND*			<input type="checkbox"/> MINOR		
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input checked="" type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	
	<input type="checkbox"/> REMOVED				<input type="checkbox"/> REMOVED		
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

ND* - Not Documented

7/28/2006

WELL Deform.

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9084

WELL NAME

699-93-37

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

151728.77

EASTING

578432.709

ELEVATION

122.78

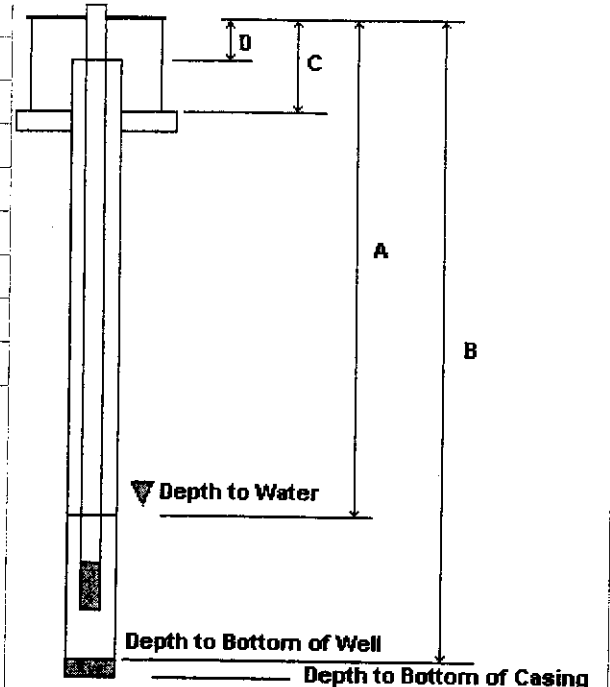
MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
-------------	-----	--------	---------------

CHANGES



CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
------	-----	--------	----------	------	------------	-----------

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
------	-----	--------	----------	------	-----------

CHANGES

WELL NAME	WELL TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS
		L 83	PLANT			WELL DIAM	COMPL DEPTH	TYPE	
PUMP TYPE	NS/EW	NS/EW	DATE COMPL	DEPTH WATER				PREVIOUS WELL NAMES	

699-92-47	AB			420.00 56.0	49.0					FILLED IN T14NR26E24D1
699-92-49	GW B	151647.69 575063.38	92411.10 -48530.40	431.94 12.0	41.0 55.0 49.0					14/25-23A1
699-93-37	AB		92650.00 -37475.00	399.32 72.0	29.0 19.0					FILLED IN 14/27-19A1, N.RUN

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

699-93-46	GW									
699-93-48	GW					4.0	41.2	62.3		100-HR-3 OP. UNIT
699-93-49	AB									FILLED IN T14NR26E14Q1
699-93-49B	GW									
699-93-50	AB		92871.00 -49884.00	446.00 60.0						FILLED IN
699-93-93	OS			637.01 20.0 4/53	520.0 515.5 235.0	P	20.0	262.0	516.0	ARMY CAMP WELL 14/24-21B1, PSN
699-94-47	AB			420.00 48.0						FILLED IN 14/26-13M1
699-94-48	AB			424.30 60.0	39.0					FILLED IN 14/26-13M1, N.RUN
699-96-43	GW	152605.54 576761.65	95550.40 -42949.90	421.84 4.0 4/92	40.2 48.5 38.4	S	4.0	32.4	48.5	100-HR-3 OP. UNIT 699-91-43

IWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A9084	699-93-37	UNKNOWN	NAD83	01/01/1801	CONVERTED	151728.77	578432.709	m	

SCAN DATA REPORT

699-93-37

Request No.:
073-327

Project No.:
A

Title:
Well Decommissioning: A9084 (Ground Scan)

File No.:
600C-001

Job No.:
65400811.1225400 CA10

Prepared by:
Tim Johnson

Date:
9/26/07

Reviewer:

Page
1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9084 in attempt to locate possible buried casings.

DISTRIBUTION	SDR	SKETCH	DWG
Survey File	OR	OR	
S.H. Worley	1		
B.J. Howard	1		
E.C. Rafuse	1		
G.G. Kelty	1		
W.D. Webber	1		

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH
☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

Required Functional Checks
Current/Completed

- ☐ 50/60 Hz detector (for energized lines)
- ☐ Radio Frequency Electromagnetics (RF)
- ☐ Ground Penetrating Radar (GPR)
- ☒ Other (identify) Magnetic Locator (Schonstedt)

- ☐
- ☐
- ☐
- ☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

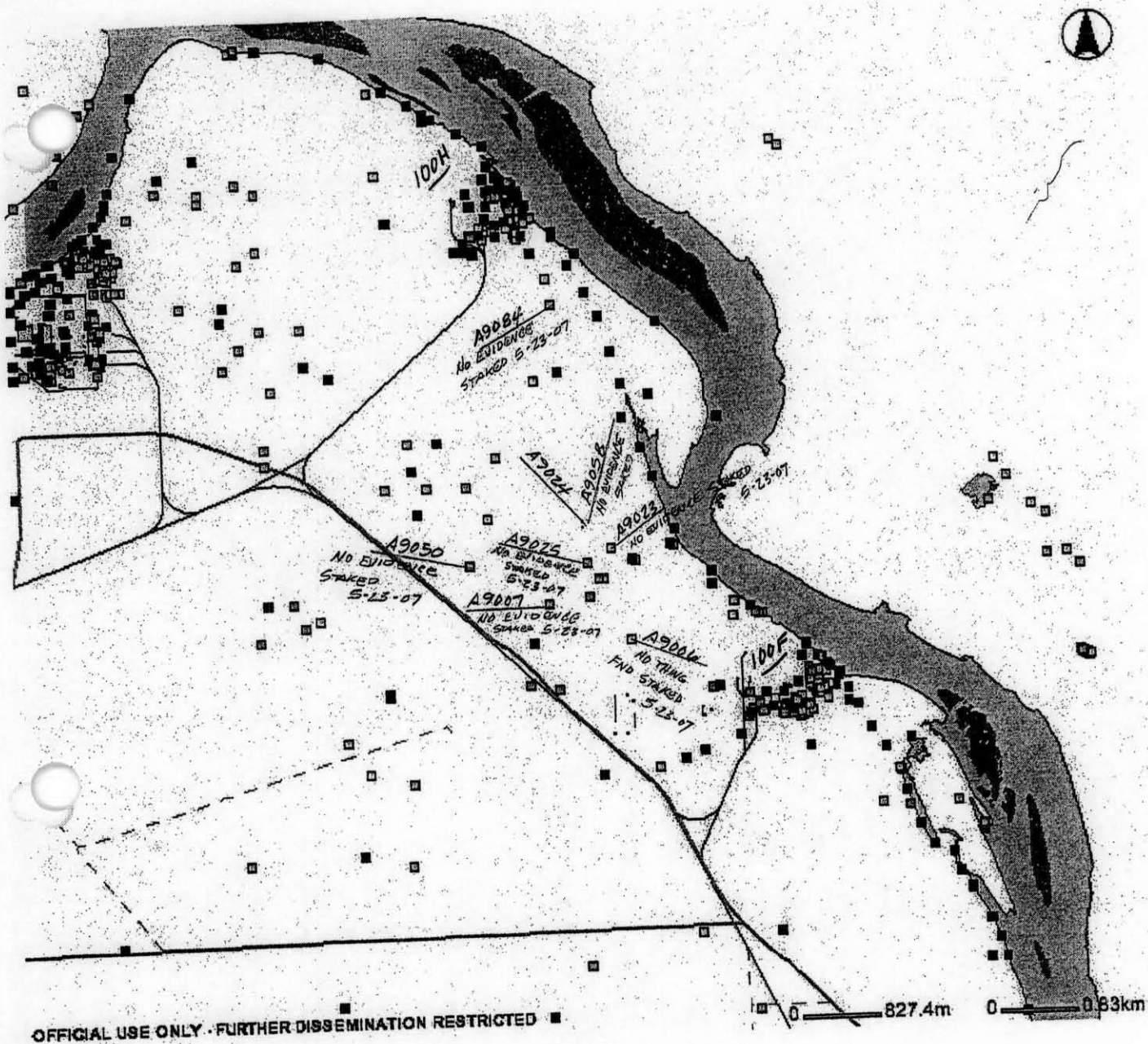
Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

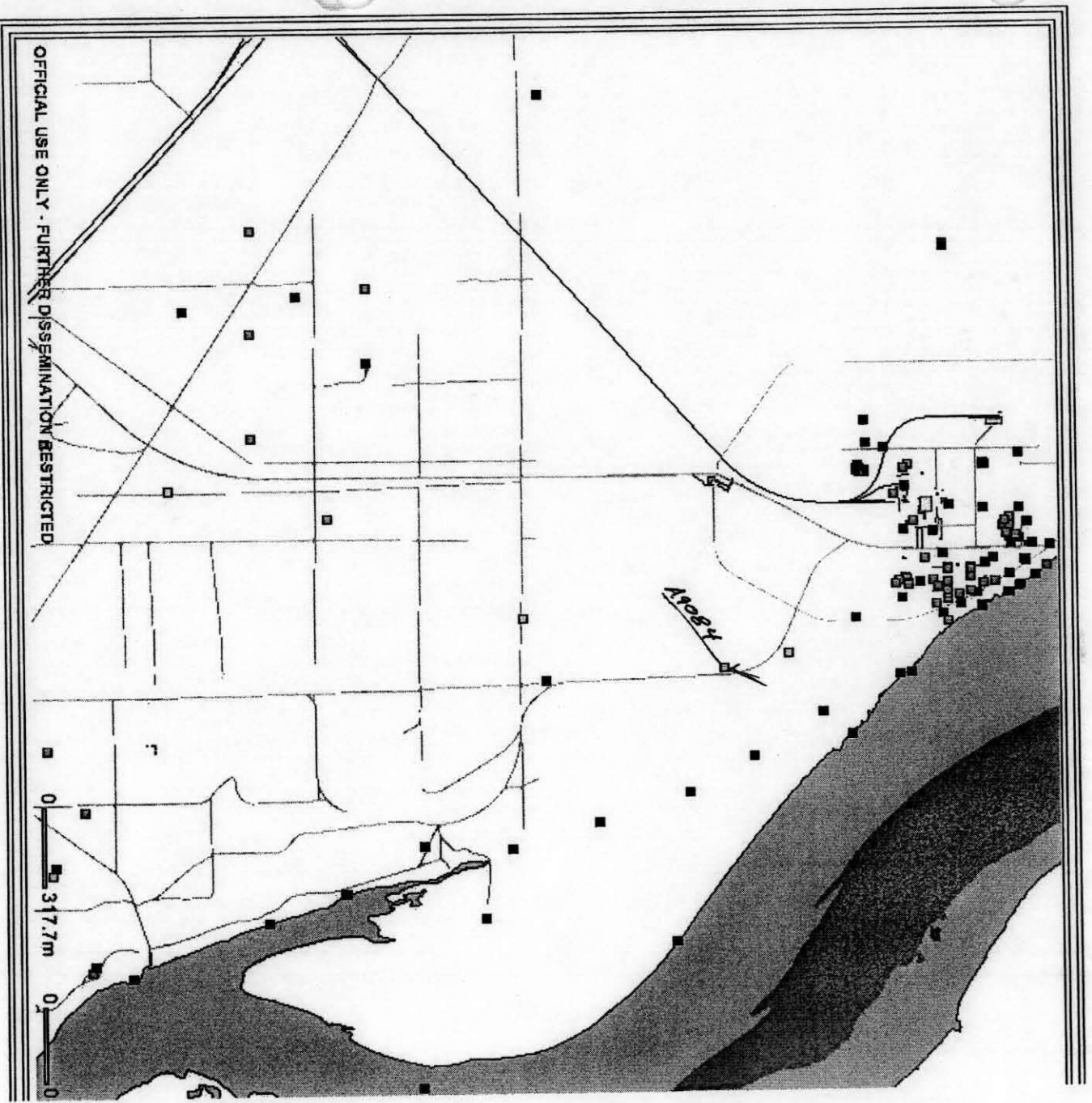
- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.



699-93-37 (A9084)



699-93-37 (A9084)

699-93-37 (1908) WELL DECOMMISSION - KOPPE ABOVE SWELTH

POSSIBLE OILWELL
Narrow

10/24/07

100 ft
Recess

APR 1908



699-93-50

A9086

WELL NAME WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN			COMMENTS PREVIOUS WELL NAMES
	L 83 NS/EW	PLANT NS/EW			TYPE	DIAM	TOP	
699-92-47 AB			420.00 56.0	49.0				FILLED IN T14NR26E24D1
699-92-49 GW B	151647.69 575063.38	92411.10 -48530.40	431.94 12.0	41.0 55.0 49.0				14/25-23A1
699-93-37 AB		92650.00 -37475.00	399.32 72.0	29.0 19.0				FILLED IN 14/27-19A1, N.RUN
699-93-46 GW								
699-93-48 GW	151795.52 575094.32	92905.60 -48426.60	437.79 4.0 4/92	83.0 62.3 52.9	S	4.0	41.2 62.3	100-HR-3 OP. UNIT
699-93-49 AB			405.22 60.0	58.0				FILLED IN T14NR26E14Q1
699-93-49B GW								
699-93-50 AB		92871.00 -49884.00	446.00 60.0					FILLED IN
699-93-93 OS							262.0 516.0	ARMY CAMP WELL 14/24-21B1, PSN
699-94-47 AB								FILLED IN 14/26-13M1
699-94-48 AB								FILLED IN 14/26-13M1, N.RUN
699-96-43 GW	152605.54 576761.65	95550.40 -42949.90	421.84 4.0 4/92	40.2 48.5 38.4	S	4.0	32.4 48.5	100-HR-3 OP. UNIT 699-91-43

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

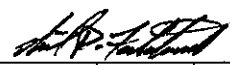
Pacific NW Lab by Battelle Memorial Institute

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
19086	699-93-50	UNKNOWN	NAD83	01/01/1801	CONVERTED	151786.842	574650.483	m	R

SURVEY DATA REPORT

699-93-50

SURVEY DATA REPORT				Request No. 074-507	
Project No.		Title: Well Decommissioning: A9086			File No. 6AT14R26
Job No. 65400811.1225400 CA10	Prepared By Tim Johnson	Date 9/24/2007	Reviewer 		Page 1 of 1

DESCRIPTION OF WORK	DISTRIBUTION	SDR	PLOT	DWG
Stake or locate Well A9086 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well. Horizontal Datum: WCS83S/91 (Meters) Vertical Datum: NAVD88 (Meters) Equipment Used: Trimble GPS 5800 RTK	Survey File	OR		
	S.H. Worley	1		
	B.J. Howard	1		
	E.C. Rafuse	1		
	G.G. Kelty	1		
	W.D. Webber	1		

SURVEY RESULTS AND COMMENTS

<u>Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Ground Elevation</u>	<u>Description</u>
A9086	151786.84	574650.48	134.41	No evidence of well found at coordinates given. Set hub & lath.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

SCAN DATA REPORT

Request No.:

074-509

Project No.:

Title:

Well Decommissioning: A9086 (Ground Scan)

File No. :

600C-001

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

9/25/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9086 in attempt to locate possible buried casings.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

W.D. Webber

1

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH

☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

 50/60 Hz detector (for energized lines)

 Radio Frequency Electromagnetics (RF)

 Ground Penetrating Radar (GPR)

X Other (identify) Magnetic Locator (Schonstedt)

Required Functional Checks

Current/Completed

☐

☐

☐

☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

te: No evidence of well casing detected in scan area.

699-93-50

A9086

699-94-47

A9088

SEE SCRN, SURVY # PHOTOS
WELL DECOM. SCN 10/0/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO		LAST INSPECTION	1/1/1801
WELL ID	A9088	NORTHING	152352
WELL NAME	699-94-47	EASTING	575461
HOST WELL ID		ELEVATION	129.08
CONST DATE			
CONST DEPTH			

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> MINOR	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input type="checkbox"/> MINOR
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input checked="" type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REMOVED
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

ND* - Not Documented

7/28/2006

SEE SCAN, SURVEY & PHOTOS
WELL DECOM. SLO 10/01/07

WELL ATTRIBUTES REPORT

ELD ORDER NO		LAST INSPECTION	
WELL ID	A9088	NORTHING	152352
WELL NAME	699-94-47	EASTING	575461
HOST WELL ID		ELEVATION	129.08
CONST DATE		CONST DEPTH	

MEASUREMENT INFORMATION		
	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION			
CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

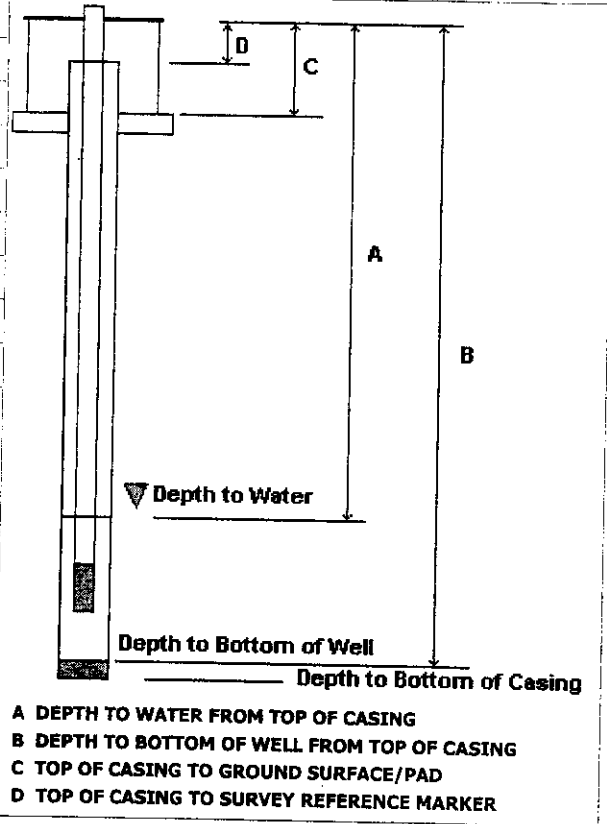
CHANGES

CASING INFORMATION						
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION					
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES



WELL NAME	WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN			COMMENTS PREVIOUS WELL NAMES	
		L 83 NS/EW	PLANT NS/EW			TYPE	DIAM	TOP		BOT
699-92-47	AB			420.00 56.0	49.0					FILLED IN T14NR26E24D1
699-92-49	GW B	151647.69 575063.38	92411.10 -48530.40	431.94 12.0	41.0 55.0 49.0					14/25-23A1
699-93-37	AB		92650.00 -37475.00	399.32 72.0	29.0 19.0					FILLED IN 14/27-19A1, N.RUN
699-93-46	GW									
699-93-48	GW	151795.52 575094.32	92905.60 -48426.60	437.79 4.0 4/92	83.0 62.3 52.9	S	4.0	41.2	62.3	100-HR-3 OP. UNIT
699-93-49	AB			405.22 60.0	58.0					FILLED IN T14NR26E14Q1
699-93-49B	GW									
699-93-50	AB		92871.00 -49884.00	446.00 60.0						FILLED IN
699-93-93	OS			637.01 20.0 4/53	520.0 515.5 235.0	P	20.0	262.0	516.0	ARMY CAMP WELL 14/24-21B1, PSN
699-94-47	AB			420.00 48.0						FILLED IN 14/26-13M1
699-94-48	AB									FILLED IN 14/26-13M1, N.RUN
699-96-43	GW	152605. 576761.								100-HR-3 OP. UNIT 699-91-43

Hanford Wells

PNL-8800 UC-903

M.A.Chamness & J.K. Merz

August 1993

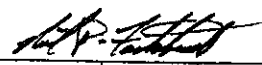
Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9088	699-94-47	BHI	NAD83(91)	01/01/1801	ESTIMATED	152352	575461	m	P	

SURVEY DATA REPORT				Request No. 074-507	
Project No.		Title: Well Decommissioning: A9088 / 644-74-07 ⁴⁷			File No. 6AT14R26
Job No. 65400811.1225400 CA10		Prepared By Tim Johnson	Date 9/24/2007	Reviewer 	Page 1 of 1
DESCRIPTION OF WORK			DISTRIBUTION	SDR	PLOT
Stake or locate Well A9088 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well. Horizontal Datum: WCS83S/91 (Meters) Vertical Datum: NAVD88 (Meters) Equipment Used: Trimble GPS 5800 RTK			Survey File	OR	
			S.H. Worley	1	
			B.J. Howard	1	
			E.C. Rafuse	1	
			G.G. Kelty	1	
			W.D. Webber	1	
SURVEY RESULTS AND COMMENTS					
<u>Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Ground Elevation</u>	<u>Description</u>	
A9088	152352	575461	130.42	No evidence of well found at coordinates given. Set hub & lath.	
NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.					

SCAN DATA REPORT

Request No.:
074-509

Project No.:
A

Title:
Well Decommissioning: A9088 (Ground Scan) / 699-94-47

File No.:
600C-001

Job No.:
65400811.1225400 CA10

Prepared by:
Tim Johnson

Date:
9/25/07

Reviewer:
[Signature]

Page
1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9088 in attempt to locate possible buried casings.

DISTRIBUTION	SDR	SKETCH	DWG
Survey File	OR	OR	
S.H. Worley	1		
B.J. Howard	1		
E.C. Rafuse	1		
G.G. Kelty	1		
W.D. Webber	1		

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH
☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry
 Depth of Investigation 8 feet

Equipment Used:

Required Functional Checks Current/Completed

- ☐ 50/60 Hz detector (for energized lines)
- ☐ Radio Frequency Electromagnetics (RF)
- ☐ Ground Penetrating Radar (GPR)
- ☒ Other (identify) Magnetic Locator (Schonstedt)

- ☐
- ☐
- ☐
- ☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

49088

699-94-47

699-94-7 (A9088) Looking NORTH, WELL DECOM.

09/24/07



699-94-48

A9089

SEE SURVEY, SKETCH & PHOTO
WELL DECOM. END 10/01/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

WELL NAME

HOST WELL ID

A9089

699-94-48

CONST DATE

CONST DEPTH

LAST INSPECTION

NORTHING

EASTING

ELEVATION

1/1/1801

152223.882

575262.019

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	<input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> NONE	
	<input type="checkbox"/> MINOR	<input checked="" type="checkbox"/> ND*			<input type="checkbox"/> MINOR		
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input checked="" type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REMOVED
	<input type="checkbox"/> REMOVED						
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY	ND*			ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE	ND*			PUMP TYPE			
PUMP MAKE	ND*			PUMP MAKE			
PUMP MODEL	ND*			PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL	ND*			TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION	ND*			TUBING CONNECTION			

SEE SURVEY, SCAN & PHOTO
WELL DECOM. REC
10/10/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO

WELL ID

A9089

WELL NAME

699-94-48

HOST WELL ID

CONST DATE

CONST DEPTH

LAST INSPECTION

1/1/1801

NORTHING

152223.882

EASTING

575262.019

ELEVATION

MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND
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CHANGES

CASING INFORMATION

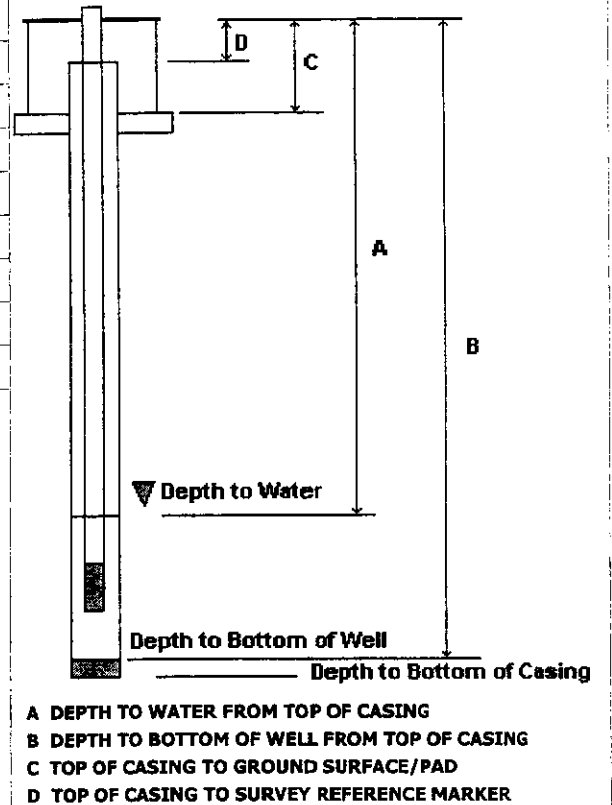
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
------	-----	--------	----------	------	------------	-----------

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE
------	-----	--------	----------	------	-----------

CHANGES



WELL NAME	WELL TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS
		L 83	PLANT			WELL DIAM	COMPL DEPTH	TYPE	
PUMP TYPE	NS/EW	NS/EW	DATE	COMPL	DEPTH	WATER			PREVIOUS WELL NAMES
699-92-47	AB			420.00	49.0				FILLED IN
				56.0					T14NR26E24D1
699-92-49	GW	151647.69	92411.10	431.94	41.0				
	B	575063.38	-48530.40	12.0	55.0				14/25-23A1
					49.0				
699-93-37	AB		92650.00	399.32	29.0				FILLED IN
			-37475.00	72.0	19.0				14/27-19A1, N.RUN
699-93-46	GW								
699-93-48	GW	151795.52	92905.60	437.79	83.0	S	4.0	41.2	62.3
		575094.32	-48426.60	4.0	62.3				100-HR-3 OP. UNIT
				4/92	52.9				
699-93-49	AB			405.22	58.0				FILLED IN
				60.0					T14NR26E14Q1
699-93-49B	GW								
699-93-50	AB								FILLED IN
699-93-93	OS								
699-94-47	AB								
699-94-48	AB			424.30	39.0				FILLED IN
				60.0					14/26-13M1, N.RUN
699-96-43	GW	152605.54	95550.40	421.84	40.2	S	4.0	32.4	48.5
		576761.65	-42949.90	4.0	48.5				100-HR-3 OP. UNIT
				4/92	38.4				699-91-43

Hanford Wells

PNL-8800 UC-903

M.A. Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
A9089	699-94-48	UNKNOWN	NAD83	01/01/1801	CONVERTED	152223.882	575262.019	m	R

SURVEY DATA REPORT

Request No.
074-507

Project No.
A

Title:
Well Decommissioning: A9089 / ~~699-94-98~~ ⁴⁸

File No.
6AT14R26

Job No.
65400811.1225400
CA10

Prepared By
Tim Johnson

Date
9/24/2007

Reviewer
[Signature]

Page
1 of 1

DESCRIPTION OF WORK

Stake or locate Well A9089 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well.

Horizontal Datum: WCS83S/91 (Meters)

Vertical Datum: NAVD88 (Meters)

Equipment Used: Trimble GPS 5800 RTK

DISTRIBUTION

SDR

PLOT

DWG

Survey File

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

W.D. Webber

1

SURVEY RESULTS AND COMMENTS

<u>Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Ground Elevation</u>	<u>Description</u>
A9089	152223.88	575262.02	130.48	No evidence of well found at coordinates given. Set hub & lath.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

E-NW-246 (09/04)

SCAN DATA REPORT

Request No.:

074-509

File No.:

600C-001

Project No.:

Title:

Well Decommissioning: A9089 (Ground Scan)

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

9/25/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9089 in attempt to locate possible buried casings.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

W.D. Webber

1

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH

☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

☐ 50/60 Hz detector (for energized lines)

☐ Radio Frequency Electromagnetics (RF)

☐ Ground Penetrating Radar (GPR)

☒ Other (identify) Magnetic Locator (Schonstedt)

Required Functional Checks
Current/Completed

☐

☐

☐

☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

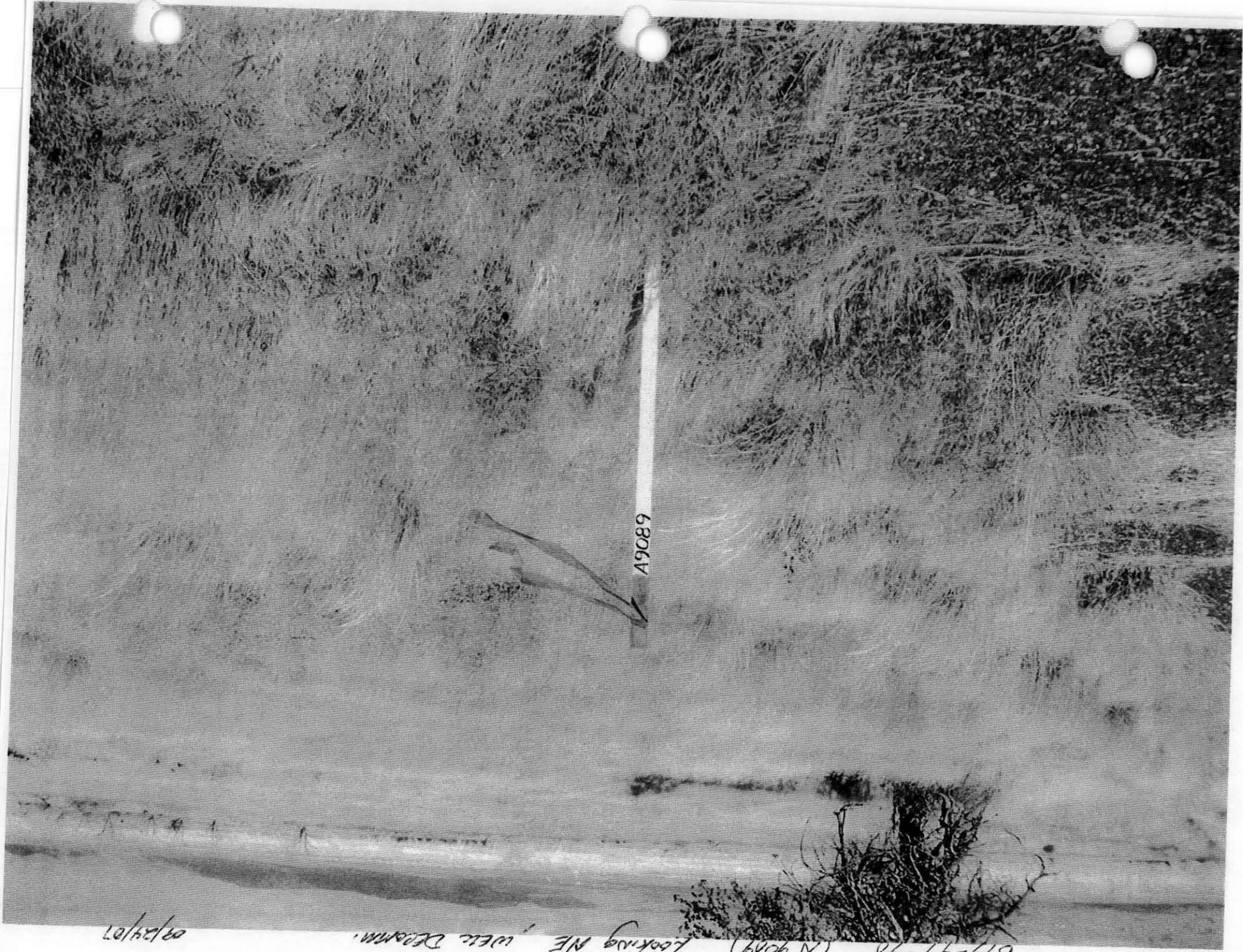
- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

A9089

699-94-48



09/24/07

699-97-48 (A9089) Looking NE, with stream.

699-97-48
A9092

WELL ATTRIBUTES REPORT

WELL ID	A9092	NORTHING	153040.6	FIELD ORDER NO	
WELL NAME	699-97-48	EASTING	575262.6	LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION	125.802	CONST DATE	
GW OPERABLE UNIT	100-HR-3-D	DRILL DATE		CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> MINOR	<input checked="" type="checkbox"/> NONE	SURFACE EROSION	<input type="checkbox"/> MAJOR	<input type="checkbox"/> MINOR	<input type="checkbox"/> NONE
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> INSPECTED	<input checked="" type="checkbox"/> NONE	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> INSPECTED	<input type="checkbox"/> NONE
	<input type="checkbox"/> REMOVED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REPAIRED		<input type="checkbox"/> REMOVED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REPAIRED
ACTIVITY PERFORMED BY				ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	PUMP IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PUMP TYPE				PUMP TYPE			
PUMP MAKE				PUMP MAKE			
PUMP MODEL				PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
LAST TUBING INFORMATION				CURRENT TUBING INFORMATION			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL				TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION				TUBING CONNECTION			
LAST MEASUREMENT INFORMATION				CURRENT MEASUREMENT INFORMATION			
DEPTH TO WATER(ft)				DEPTH TO WATER(ft)			
DEPTH TO WATER DATE				DEPTH TO WATER DATE			
DEPTH TO BOTTOM(ft)				DEPTH TO BOTTOM(ft)			
DEPTH TO BOTTOM DATE				DEPTH TO BOTTOM DATE			
STICK UP(ft)				STICK UP(ft)			
REFERENCE MARK(ft)				REFERENCE MARK(ft)			
REFERENCE MARK IS TOC	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> ND	REFERENCE MARK IS TOC	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

WELL ATTRIBUTES REPORT

WELL ID	A9092	NORTHING	153040.6	FIELD ORDER NO	
WELL NAME	699-97-48	EASTING	575262.6	LAST INSPECTION	1/1/1801
HOST WELL ID		ELEVATION	125.802	CONST DATE	
GW OPERABLE UNIT	100-HR-3-D	DRILL DATE		CONST DEPTH	
PROGRAMS					
WASTE SITES 50FT					
WM PLAN(S)					
WASTE STORAGE(S)					

WELL ATTRIBUTE COMMENTS

CASING INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	CONNECTION	THICKNESS/UNITS	REMOVED

CHANGES

SCREEN INFORMATION

SIZE/UNITS	TOP/BOT/UNITS	MATERIAL	TYPE	SLOT SIZE/UNITS	REMOVED

CHANGES

PERFORATION INFORMATION

CASING SIZE/UNITS	TOP/BOT/UNITS	CUTS/FT/ROUND	REMOVED

CHANGES

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID
WELL NAME
HOST WELL ID

09092
679-97-48

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

153040.1
575262.6

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL PAD	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	PROTECTIVE POSTS	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL LOCK	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL DAMAGED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL IS DRY	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REMOVED
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY				ACTIVITY PERFORMED BY	<u>D.P. Gossard</u>		
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED	<u>7/31/07</u>		
PUMP TYPE				PUMP TYPE			
PUMP MAKE				PUMP MAKE			
PUMP MODEL				PUMP MODEL			
PUMP INTAKE DEPTH (R)				PUMP INTAKE DEPTH (R)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL				TUBING MATERIAL			
TUBING LENGTH (R)				TUBING LENGTH (R)			
TUBING CONNECTION				TUBING CONNECTION			

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID
WELL NAME
HOST WELL ID

1402
699-97-48

DRILL DATE
CONST. DATE
CONST. DEPTH

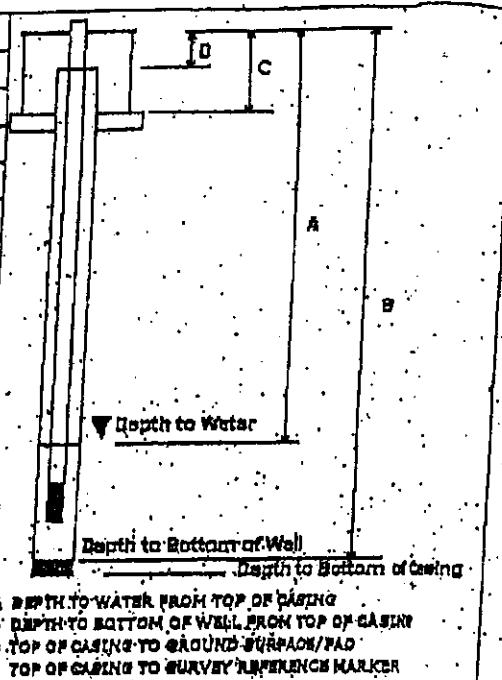
LAST INSPECTION
NORTHING
EASTING
ELEVATION

153040.6
575262.6

MEASUREMENT INFORMATION		
	LAST	CURRENT
A DEPTH TO WATER (M)		
DEPTH TO WATER DATE		<u>7/31/07</u>
B DEPTH TO BOTTOM (M)		
DEPTH TO BOTTOM DATE		<u>7/31/07</u>
C STICK UP (M)		
D REFERENCE MARK (M)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO*	<input type="checkbox"/> YES <input type="checkbox"/> NO

PERFORATION INFORMATION			
CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES All I found was a depression in the ground with a visible sand layer by the pump.
There was a line that had fallen over what would have been the well.



A DEPTH TO WATER FROM TOP OF CASING
B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
C TOP OF CASING TO GROUND SURFACE/PAD
D TOP OF CASING TO SURVEY REFERENCE MARKER

CASING INFORMATION						
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

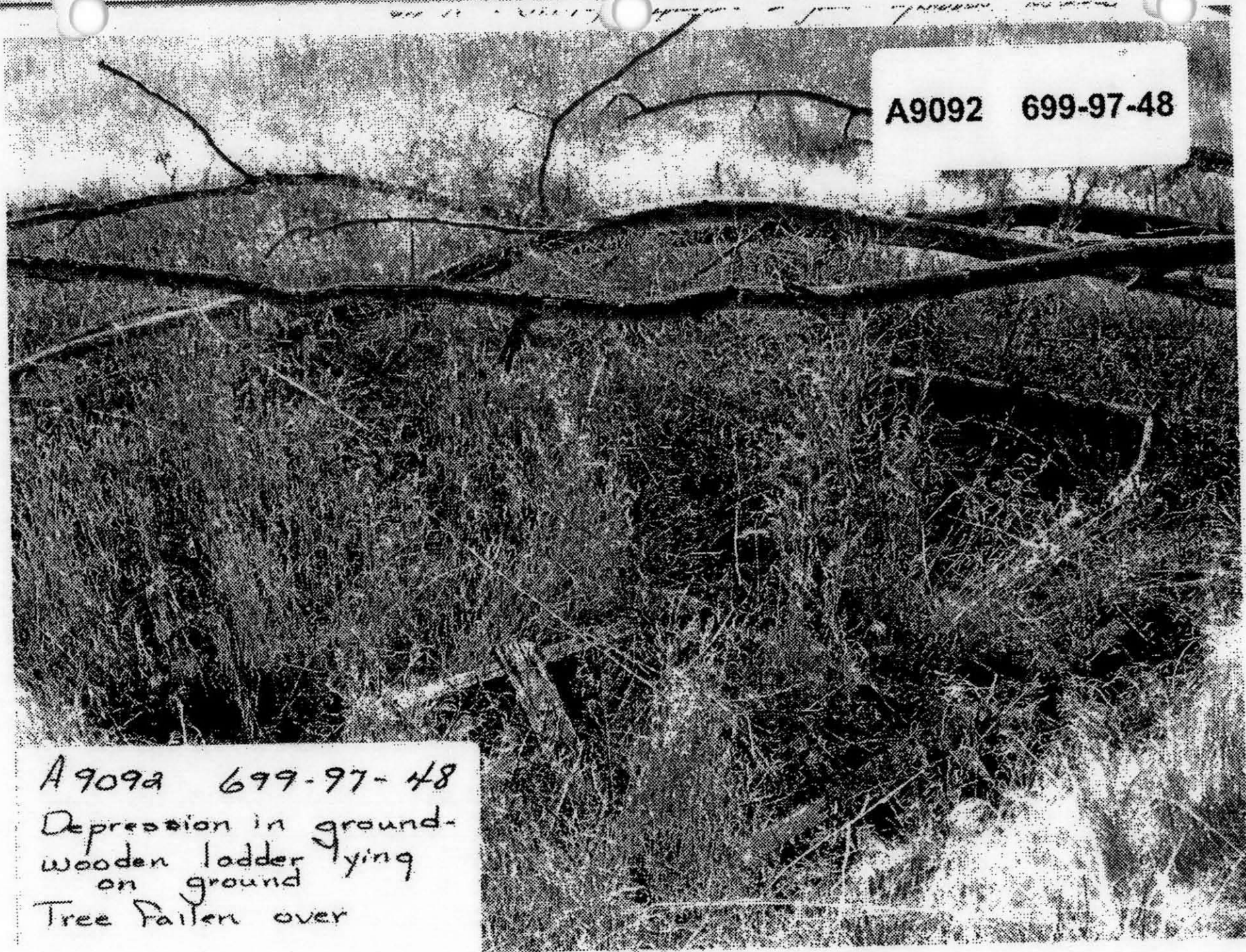
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

A9092 699-97-48

A909a 699-97-48

Depression in ground-
wooden ladder lying
on ground
Tree Fallen over



WELL NAME WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV WELL DIAM DATE COMPL	DRILL DEPTH COMPL DEPTH DEPTH WATER	PERF/SCREEN			COMMENTS	
	L 83 NS/EW	PLANT NS/EW			TYPE	DIAM	TOP	BOT	PREVIOUS WELL NAMES
699-96-49	152858.31	96384.90	419.26	100.0	P	8.0	28.0	96.0	PIEZOMETERS INSTALLED 6/77
GW	574851.56	-49215.60	8.0	100.0					199-96-49
			10/62	40.0					
699-96-49O		96388.00	419.63	50.0	P	1.5	30.0	50.0	REMOVED
AB		-49232.00	1.5	37.0					
			12/65						
699-96-49P		96388.00	419.29	100.0	P	1.5	79.0	89.0	60 SLOT SCREEN; INSTALLED 6/77
GW		-49232.00	1.5	89.0	P	8.0	28.0	96.0	
			10/62	38.0					
699-96-52	152728.90	95966.00	414.72						DUG WELL
GW	574147.54	-51526.60	12.0	30.0					
699-96-52P		95982.00	412.52						
GW		-51568.00	1.5	36.0					
				30.0					
699-97-43	153090.52	97132.10	421.84	100.0	P	8.0	25.0	97.0	CEMENT PLUG AT 83 FT.
GW	576672.03	-43240.80	8.0	83.0					199-97-43
			10/62	43.0					
699-97-43O		97143.00	422.10	60.0	P	1.5	40.0	60.0	REMOVED
AB		-43241.00	1.5	60.0					
			12/65	43.0					
699-97-43P		97143.00	422.10	90.0	P	1.5	70.0	90.0	REMOVED
AB		-43241.00	1.5	89.0					
			8/63	44.0					
699-97-47		96735.00	413.00	26.0					DUG WELL
GW		-47285.00	48.0	26.0					REF.2 NO.141
699-97-48			409.25	34.0					FILLED IN
AB			60.0						14/26-13D1, N.RUN
699-97-51A	153122.37	97254.40	402.33	32.0	P	8.0	12.0	39.0	199-97-51A, 699-97-50
GW	574468.39								699-97-51, REF.2
									FILLED AROUND 12" CORR. LINER
699-97-51B	152981.72								14/26-14D1, 699-97-51A
GW	574436.89								

Hanford Wells
 PNL-8800 UC-903
 M.A.Chamness & J.K. Merz
 August 1993
 Prepared for U.S. Dept of Energy under
 Contract DE-AC06-76RLO 1830
 Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9092	699-97-48	UNKNOWN	NAD83	01/01/1801	UNKNOWN	153040.6	575262.6	m	R	

SURVEY DATA REPORT

Request No.
074-507

File No.
6AT14R26

Project No.

Title:
Well Decommissioning: A9092 674-97-48

Job No.
65400811.1225400
CA10

Prepared By
Tim Johnson

Date
9/24/2007

Reviewer



Page
1 of 1

DESCRIPTION OF WORK

Stake or locate Well A9092 in support of well decommissioning at coordinates given. If found, obtain information for WAR Report. Obtain ground elevation and take photo of staked location or well.

Horizontal Datum: WCS83S/91 (Meters)
Vertical Datum: NAVD88 (Meters)
Equipment Used: Trimble GPS 5800 RTK

DISTRIBUTION

SDR

PLOT

DWG

Survey File

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

W.D. Webber

1

SURVEY RESULTS AND COMMENTS

<u>Name</u>	<u>Northing</u>	<u>Easting</u>	<u>Ground Elevation</u>	<u>Description</u>
A9092	153040.6	575262.6	124.59	No evidence of well found at coordinates given. Set hub & lath.

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.

E-NW-246 (09/04)

SCAN DATA REPORT

Request No.:
074-509

Project No.:

A

Title:

Well Decommissioning: A9092 (Ground Scan) *699-97-48*

File No.:
600C-001

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

9/25/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9092 in attempt to locate possible buried casings.

DISTRIBUTION	SDR	SKETCH	DWG
Survey File	OR	OR	
S.H. Worley	1		
B.J. Howard	1		
E.C. Rafuse	1		
G.G. Kelty	1		
W.D. Webber	1		

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH
☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

- ☐ 50/60 Hz detector (for energized lines)
- ☐ Radio Frequency Electromagnetics (RF)
- ☐ Ground Penetrating Radar (GPR)
- ☒ Other (identify) Magnetic Locator (Schonstedt)

Required Functional Checks
Current/Completed

- ☐
- ☐
- ☐
- ☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

699-97-48

A9092



699-97-48(A9092)

WEL DELOMM.

9/27/67

100M
KERR

A9092



699-100-43
A9099

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID
WELL NAME
HOST WELL ID

14079
1099-100-43

DRILL DATE
CONST DATE
CONST DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

157 153733
576634

LAST INSPECTION INFORMATION			CURRENT INSPECTION INFORMATION		
WELL PAD	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL PAD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		BRASS SURVEY MARKER	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL LABELED WITH WELL ID	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL LABELED WITH WELL NAME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		PROTECTIVE POSTS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		REMOVABLE POST IN PLACE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL LOCK	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL DAMAGED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL IS DRY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO	
LAST PUMP INFORMATION			CURRENT PUMP INFORMATION		
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> ND* <input type="checkbox"/> REMOVED		PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED	
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*		NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO	
ACTIVITY PERFORMED BY			ACTIVITY PERFORMED BY	<u>DEG-logic</u>	
DATE ACTIVITY PERFORMED			DATE ACTIVITY PERFORMED	<u>7/31/07</u>	
PUMP TYPE			PUMP TYPE		
PUMP MAKE			PUMP MAKE		
PUMP MODEL			PUMP MODEL		
PUMP INTAKE DEPTH (ft)			PUMP INTAKE DEPTH (ft)		
TUBING SIZE (in)			TUBING SIZE (in)		
TUBING MATERIAL			TUBING MATERIAL		
TUBING LENGTH (ft)			TUBING LENGTH (ft)		
TUBING CONNECTION			TUBING CONNECTION		

WELL ATTRIBUTES REPORT

FIELD ORDER NO
WELL ID
WELL NAME
HOST WELL ID

A9099
699-100-43

DRILL DATE
CONST. DATE
CONST. DEPTH

LAST INSPECTION
NORTHING
EASTING
ELEVATION

83933
57634

MEASUREMENT INFORMATION		
	LAST	CURRENT
A DEPTH TO WATER (ft)		<u>ND</u>
DEPTH TO WATER DATE		<u>7/24/07</u>
B DEPTH TO BOTTOM (ft)		<u>ND</u>
DEPTH TO BOTTOM DATE		<u>7/28/03</u>
C STICK UP (ft)		
D REFERENCE MARK (ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

PERFORATION INFORMATION			
CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

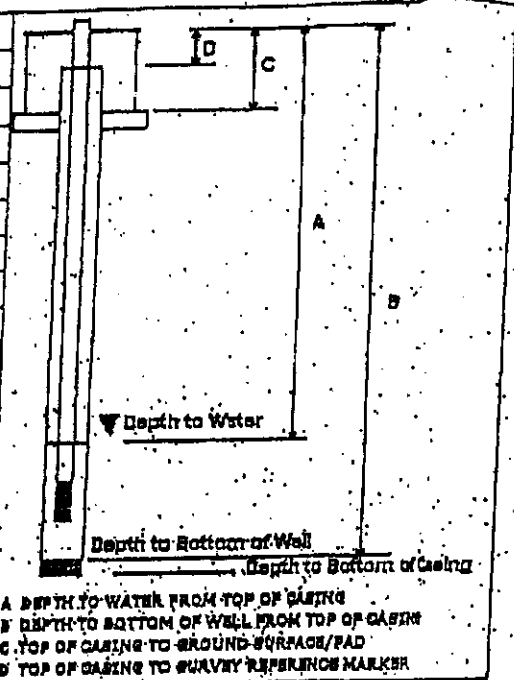
CHANGES There isn't anything but a stick where the sensors say the well is. There is 300 ft of a depression when it looks like an old dry well. See photo

CASING INFORMATION						
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION					
SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES



Staked location
no well

699-100-43

A9099 699-100-43

699-100-43 is a well location

all the 11/10/11 - present and present name

A9099 699-100-43

? A9099 699-100-43
300' from survey coord
possible old dug out well

WELL NAME WELL TYPE PUMP TYPE	COORDINATES		CASING ELEV	DRILL DEPTH	PERF/SCREEN			COMMENTS
	L 83 NS/EW	PLANT NS/EW	WELL DIAM DATE COMPL	COMPL DEPTH DEPTH WATER	TYPE	DIAM	TOP BOT	PREVIOUS WELL NAMES
699-97-52 AB			5/43	37.0				FILLED IN RANNEY TH#9
699-98-49A AB	153310.44 574823.65	97868.50 -49303.60	401.80 10.0	40.0 26.0 20.0				DUG WELL BACK FILLED 14/26-14A1, 199-98-49A 699-98-49
699-98-49B AB								FILLED IN
699-98-54A UN								14/26-15A1
699-98-54B UN			412.00 36.0	40.0				NOT LOCATED 14/26-10R1
699-98-54C UN								NOT LOCATED 14/26-10Q1
699-99-42 GW B		98944.00 -41606.00	412.88 12.0	39.0 36.0 37.0				DUG WELL 14/27-7N1, REF.2
699-100-43 AB			405.00 36.0	40.0				FILLED IN 14/26-12J1, REF.2
699-100-54 AB								FILLED IN 14/26-11M1
699-101-48A GW					.5	47.0		SCREEN 42.5-47 HR-6
699-101-48B GW S					.0	47.0		SCREEN 43-47 HR-7
699-101-48C GW	101476.00 -47985.00	388.59 6.0 5/43	77.0 55.0	P	6.0	43.0	47.0	SCREEN 43-47 699-101-48D, HR-5

Hanford Wells

PNL-8800 UC-903

M.A. Chamness & J.K. Merz

August 1993

Prepared for U.S. Dept of Energy under

Contract DE-AC06-76RLO 1830

Pacific NW Lab by Battelle Memorial Institute

HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	CC
A9099	699-100-43	BHI	NAD83(91)	01/01/1801	ESTIMATED	153933	576634	m	P	

SURVEY DATA REPORT

Request No.
074-500

Project No.

Title:
Well Decommissioning: A9099 / 699-100-43

File No.
6AT14R26

Job No.
65400811.1225400
CA10

Prepared By
Tim Johnson

Date
9/18/2007

Reviewer

[Signature]

Page
1 of 2

DESCRIPTION OF WORK

Stake or locate Well A9099 / 699-100-43 in support of well decommissioning..
If found, obtain information for WAR Report. Obtain ground elevation and
take photo of staked position.

Horizontal Datum: WCS83S/91 (Meters)
Vertical Datum: NAVD88 (Meters)
Equipment Used: Trimble GPS 5800 RTK

DISTRIBUTION

SDR

PLOT

DWG

Survey File

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

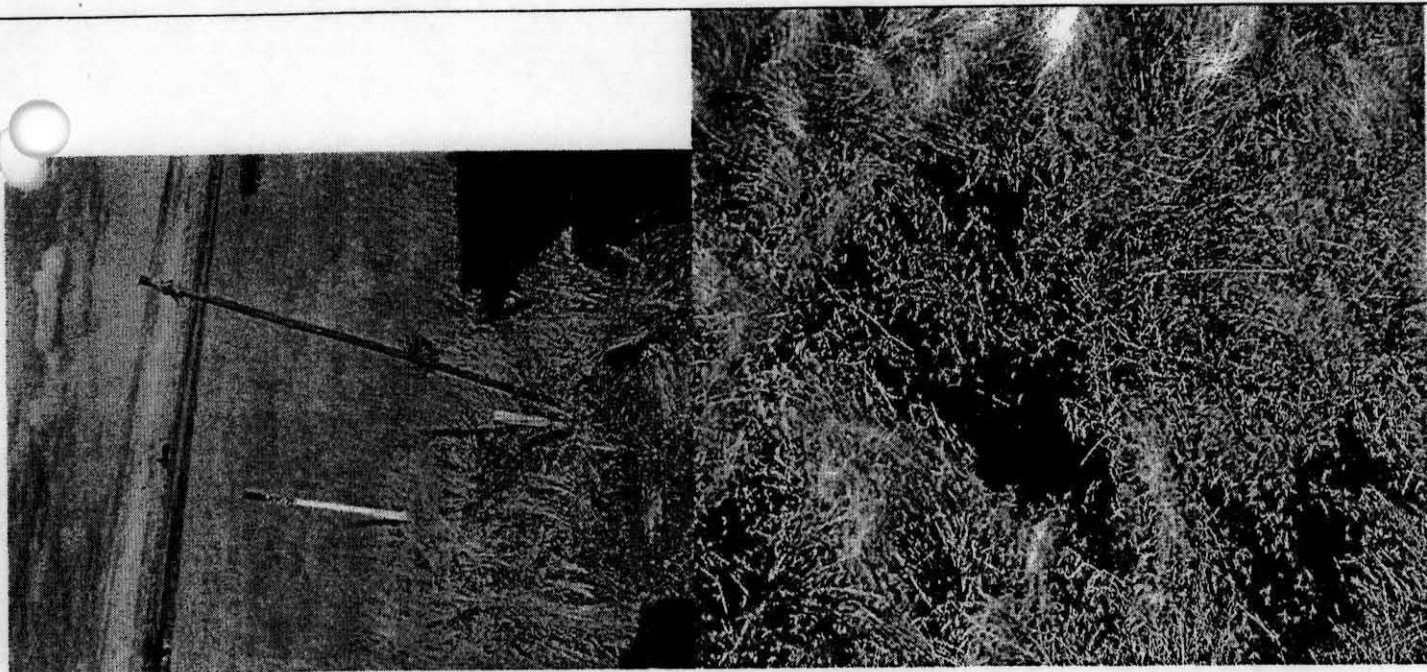
W.D. Webber

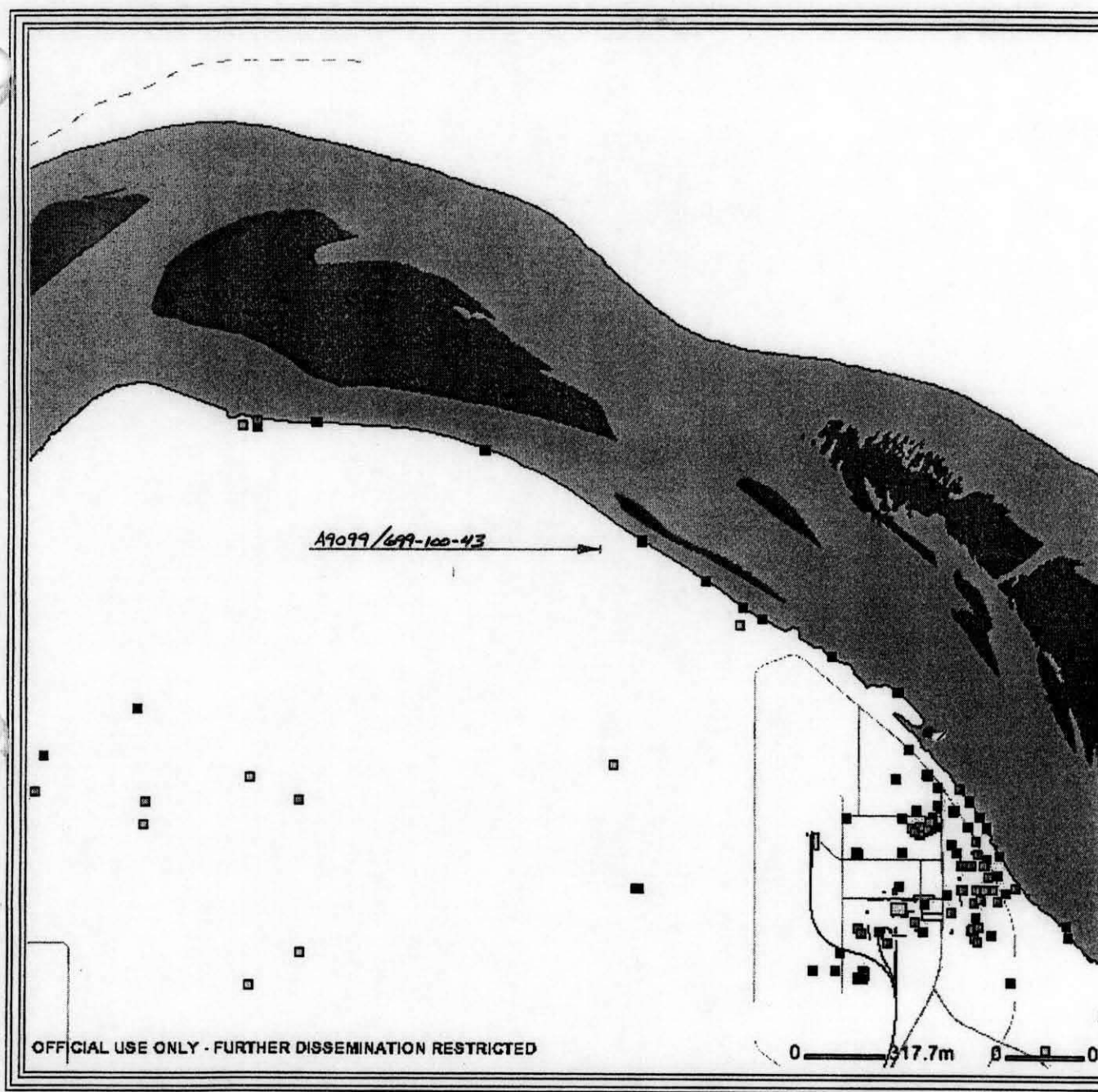
1

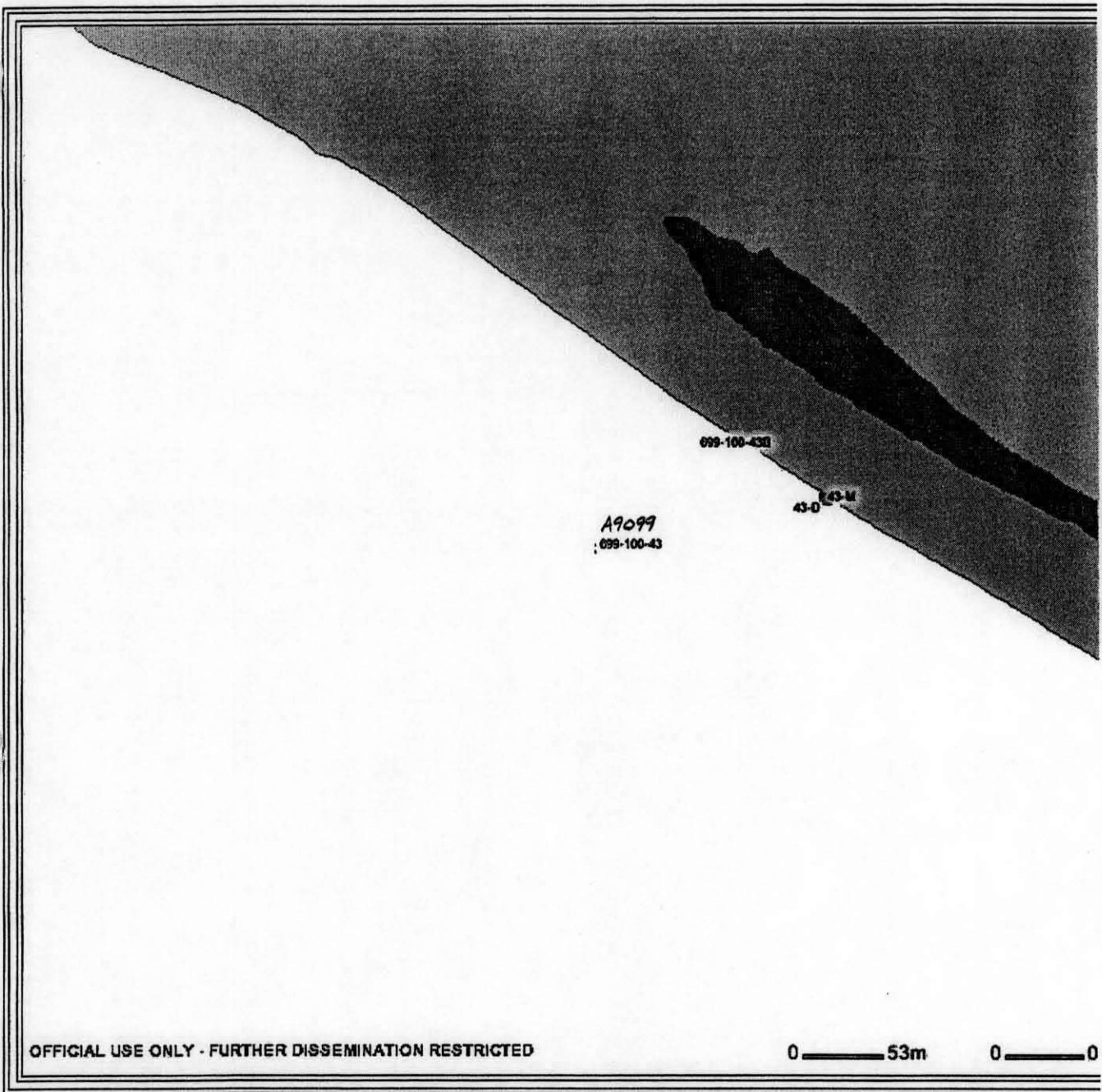
SURVEY RESULTS AND COMMENTS

Name	Northing	Easting	Elevation	Feature Code	Description
A9099	153933	576634	124.51		Coordinates Given
A9099	153933.00	576634.00	124.94	New Location	Set hub and lath
A9099	153931.45	576632.84	125.02	Previous Location	Observed old stake
DEPRESSION	153786.31	576681.50	127.34	WELL	Shot around top
DEPRESSION	153784.52	576680.88	127.28	WELL	Shot around top
DEPRESSION	153785.30	576679.29	127.36	WELL	Shot around top
DEPRESSION	153785.66	576680.46	126.73	WELL	Shot at bottom

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of Washington.







SCAN DATA REPORT

Request No.:
074-508

Project No.:

Title:

Well Decommissioning: A9099 (Ground Scan)

File No.:

600C-001

Job No.:

65400811.1225400 CA10

Prepared by:

Tim Johnson

Date:

9/25/07

Reviewer:

[Signature]

Page

1 of 1

DESCRIPTION OF WORK: Perform ground scan (20' x20' Area) around staked location of Well A9099 and depression in attempt to locate possible buried casings.

DISTRIBUTION

SDR

SKETCH

DWG

Survey File

OR

OR

S.H. Worley

1

B.J. Howard

1

E.C. Rafuse

1

G.G. Kelty

1

W.D. Webber

1

DATE OF FIELD INVESTIGATION: 9/20/2007

Weather: Temp 70°F Wind 5 MPH

☐ Cloudy ☒ Clear ☐ P. Cloudy ☐ Fog

Soil Conditions: ☐ Rocky ☒ Sandy ☐ Wet ☒ Dry

Depth of Investigation 8 feet

Equipment Used:

☐ 50/60 Hz detector (for energized lines)

☐ Radio Frequency Electromagnetics (RF)

☐ Ground Penetrating Radar (GPR)

☒ Other (identify) Magnetic Locator (Schonstedt)

Required Functional Checks

Current/Completed

☐

☐

☐

☒

GPR Antenna(s) Used: ☐ 1000 MHz ☐ 500 MHz ☐ 400 MHz ☐ 300 MHz

Documentation Provided: None

Limits of Investigation: 20' x 20' area centered on staked position of well and area of depression.

EQUIPMENT LIMITATIONS:

- Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable.
- The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.

Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.

Note: No evidence of well casing detected in scan area.

<input checked="" type="checkbox"/> Survey <input type="checkbox"/> Scan		SURVEY REQUEST		Request No. 0 7 4 - 0 5 0 0	
Project No. 65400811.1225400 CA10		Title Well Decommissioning: A9099 / 699-100-43		File No. 6 A T 1 4 R 2 6	
Requested By Scott Worley		Phone 376-5660 / 851-8250		Date Required ASAP	
Field Contact Ed Rafuse		Organization FH		Phone 373-5941 / 539-3859	
Location MO-413 / 107 / 200E					
REFERENCE DOCUMENTS		GRID SYSTEM		DISTRIBUTION	
Email / Well Location Map from QMap		<input checked="" type="checkbox"/> Lambert <input type="checkbox"/> Plant <input type="checkbox"/> Area <input type="checkbox"/> Geographic		Survey File S.H. Worley 1 B.J. Howard 1 E.C. Rafuse 1 G.G. Kelty 1 W.D. Webber 1	
LOCATION OF WORK NW of 100H / 600A		WORK CONDITIONS <input type="checkbox"/> SWP <input type="checkbox"/> Mask <input type="checkbox"/> Operator <input type="checkbox"/> Exclusion Entry			
SPECIAL INSTRUCTIONS					
Horizontal Coordinate System: WCS83S/91 (Meters) Vertical Datum: NAVD88 (Meters) No off road driving due to extreme fire danger. <div style="text-align: center;"><i>DALE GUSTAVSON (SOA) 554-6584</i></div>					
ITEM	DESCRIPTION OF WORK				
1.	Stake or locate Well A9099 / 699-100-43 in support of well decommissioning. If found, obtain information for WAR report. Obtain ground elevation and take photo of staked position. List equipment used on Survey Data Report.				
2.	Obtain coordinate and ground elevation of center of depression area ~300' SE of Well A9099 coordinate location. Ed Rafuse will show you location. It may be a possible old dug well. Record description: Dia. & Depth of depression. <i>USE SHALLOWEST METAL DETECTOR AT BOTH LOCATIONS TO SEARCH FOR CUSING.</i>				
3.	Report both on same Survey Data Report. (If Well A9099 not found make copy for Scan Request)				
Prepared By N.P. Fastabend		Date 9/14/07		Reviewed By	
NOTES/COMMENTS					
Lead Surveyor/Crew					
Date:		Signature:			

699-S6-E4CP
A9788

WELL ATTRIBUTES REPORT

Piezometer
"P"
decom

FIELD ORDER NO

WELL ID

WELL NAME

HOST WELL ID

A9788

DRILL DATE

CONST DATE

CONST DEPTH

LAST INSPECTION

NORTHING

EASTING

ELEVATION

LAST INSPECTION INFORMATION				CURRENT INSPECTION INFORMATION			
WELL PAD	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL PAD	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
BRASS SURVEY MARKER	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	BRASS SURVEY MARKER	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
MARKER STAMPED WITH WELL ID DATA	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL ID	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LABELED WITH WELL NAME	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
PROTECTIVE POSTS	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	PROTECTIVE POSTS	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
REMOVABLE POST IN PLACE	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL LOCK	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL LOCK UNABLE TO UNLOCK	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL DAMAGED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
LAST PUMP INFORMATION				CURRENT PUMP INFORMATION			
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> ND*	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED	<input type="checkbox"/> REPLACED	<input type="checkbox"/> REMOVED
PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
ACTIVITY PERFORMED BY				ACTIVITY PERFORMED BY			
DATE ACTIVITY PERFORMED				DATE ACTIVITY PERFORMED			
PUMP TYPE				PUMP TYPE			
PUMP MAKE				PUMP MAKE			
PUMP MODEL				PUMP MODEL			
PUMP INTAKE DEPTH (ft)				PUMP INTAKE DEPTH (ft)			
TUBING SIZE (in)				TUBING SIZE (in)			
TUBING MATERIAL				TUBING MATERIAL			
TUBING LENGTH (ft)				TUBING LENGTH (ft)			
TUBING CONNECTION				TUBING CONNECTION			

Report 5/30/07

WELL ATTRIBUTES REPORT

FIELD ORDER NO _____
 WELL ID _____
 WELL NAME _____
 HOST WELL ID _____

DRILL DATE _____
 CONST DATE _____
 CONST DEPTH _____

LAST INSPECTION _____
 NORTHING _____
 EASTING _____
 ELEVATION _____

MEASUREMENT INFORMATION

	LAST	CURRENT
A DEPTH TO WATER(ft)		
DEPTH TO WATER DATE		
B DEPTH TO BOTTOM(ft)		
DEPTH TO BOTTOM DATE		
C STICK UP(ft)		
D REFERENCE MARK(ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND* <input type="checkbox"/> YES <input type="checkbox"/> NO	

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES

CASING INFORMATION

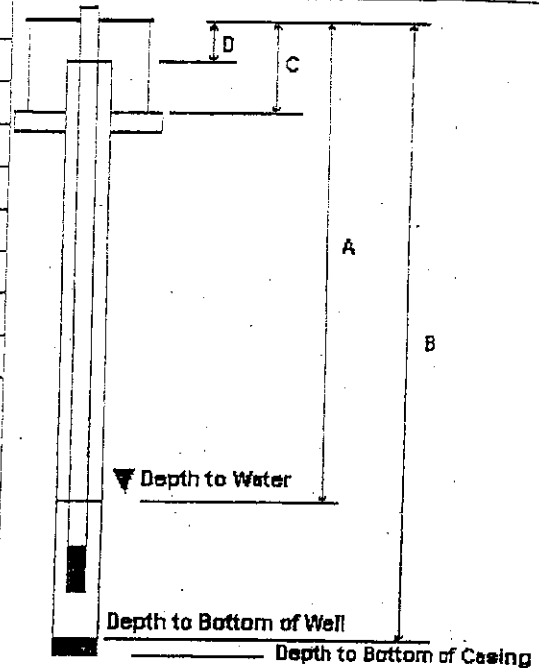
SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES



- A DEPTH TO WATER FROM TOP OF CASING
- B DEPTH TO BOTTOM OF WELL FROM TOP OF CASING
- C TOP OF CASING TO GROUND SURFACE/PAD
- D TOP OF CASING TO SURVEY REFERENCE MARKER

WELL ATTRIBUTES REPORT

FIELD ORDER NO WMO-NR-2003-4-090
 WELL ID A9154
 WELL NAME 699-S6-E4C
 HOST WELL ID _____

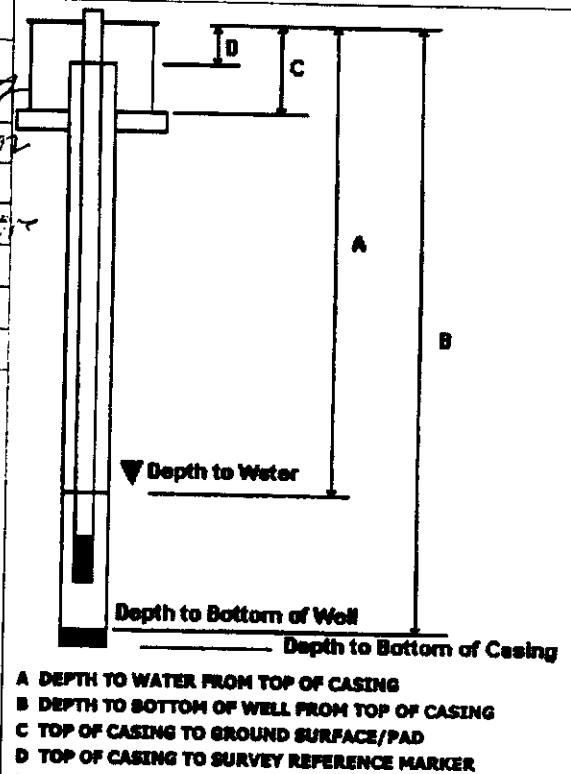
DRILL DATE 5/31/1953
 CONST DATE 7/1/1996
 CONST DEPTH 239

LAST INSPECTION 7/15/2003
 NORTHING _____
 EASTING _____
 ELEVATION _____

MEASUREMENT INFORMATION		
	LAST	CURRENT
A DEPTH TO WATER (ft)		<u>6.5-68</u>
DEPTH TO WATER DATE		<u>10/1/83</u>
B DEPTH TO BOTTOM (ft)		<u>10.1/83</u>
DEPTH TO BOTTOM DATE		<u>10/1/83</u>
C STICK UP (ft)	2.5	<u>2.50</u>
D REFERENCE MARK (ft)		
REFERENCE MARK IS TOC	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

PERFORATION INFORMATION			
CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CHANGES Ng axular space. Pizos
limited in



CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
<u>8x9.8</u>			<u>C/S</u>			

CHANGES

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

CHANGES

ND* - Not Documented
 BH-EE-231 (02/20/02)

A9788 CP CFD
 A9789 Q DV
 A9790 R DV
 B2831 S Ad Decomm
 R200 T CFD

7/29/2003

WELL ATTRIBUTES REPORT

FIELD ORDER NO WMO-NR-2003-4-090
 WELL ID A9154
 WELL NAME 699-S6-E4C
 HOST WELL ID _____

DRILL DATE 5/31/1953
 CONST DATE 7/1/1996
 CONST DEPTH 239

LAST INSPECTION 7/15/2003
 NORTHING _____
 EASTING _____
 ELEVATION _____

PIEZOMETER P:

PIEZOMETER INFORMATION

THE PIEZOMETER IS	<input checked="" type="checkbox"/> PRESENT	<input type="checkbox"/> MISSING
	<input checked="" type="checkbox"/> LABELED	<input type="checkbox"/> NOT LABELED

CHANGES

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
2"			SS			

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

PIEZOMETER Q:

PIEZOMETER INFORMATION

THE PIEZOMETER IS	<input type="checkbox"/> PRESENT	<input checked="" type="checkbox"/> MISSING
	<input type="checkbox"/> LABELED	<input type="checkbox"/> NOT LABELED

CHANGES

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

WELL ATTRIBUTES REPORT

FIELD ORDER NO WMO-NR-2003-4-090
 WELL ID A9154
 WELL NAME 009-S6-E4C
 HOST WELL ID _____

DRILL DATE 5/31/1953
 CONST DATE 7/1/1996
 CONST DEPTH 239

LAST INSPECTION 7/15/2003
 NORTHING _____
 EASTING _____
 ELEVATION _____

PIEZOMETER ~~X~~: S

PIEZOMETER INFORMATION

THE PIEZOMETER IS	<input checked="" type="checkbox"/> PRESENT	<input type="checkbox"/> MISSING
	<input checked="" type="checkbox"/> LABELED	<input type="checkbox"/> NOT LABELED

CHANGES

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
4"			SS			

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE

PIEZOMETER T:

PIEZOMETER INFORMATION

THE PIEZOMETER IS	<input checked="" type="checkbox"/> PRESENT	<input type="checkbox"/> MISSING
	<input checked="" type="checkbox"/> LABELED	<input type="checkbox"/> NOT LABELED

CHANGES

PERFORATION INFORMATION

CASING SIZE	TOP	BOTTOM	CUTS/FT/ROUND

CASING INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	CONNECTION	THICKNESS
2"			SS			

SCREEN INFORMATION

SIZE	TOP	BOTTOM	MATERIAL	TYPE	SLOT SIZE



SCHEDULED BEGIN/END DATE	7/30/200 - 8/20/2003
PURGE WATER CONTAINMENT	CONTAIN
REGULATED TRUCK REQUIRED	
HPT/RPT COVERAGE	

500.2	Remove pump and tubing from well, test pump for function before removing.
TASK WAS <input type="checkbox"/> COMPLETED <input checked="" type="checkbox"/> CANCELED	Comment _____ _____ _____ _____ _____ _____ _____
DATE WORK COMPLETED/CANCELED 10/1/03	
INITIALS [Signature]	
900.1	Tag depth to bottom of well and depth to water.
TASK WAS <input type="checkbox"/> COMPLETED <input checked="" type="checkbox"/> CANCELED	Comment _____ _____ _____ _____ _____ _____ _____
DATE WORK COMPLETED/CANCELED 10/1/03	
INITIALS [Signature]	

S.H. WORLEY
Print Name

Date 10-2-03

[Signature]
BHT Field Services Authorized Signature

SAUTON FOR ED RAUSE
Print Name

Date 10/3/03

WELL ATTRIBUTES REPORT

FIELD ORDER NO WMO-NR-2003-4-090
 WELL ID A9154
 WELL NAME 699-S6-E4C
 HOST WELL ID _____

DRILL DATE 5/31/1953
 CONST DATE 7/1/1996
 CONST DEPTH 239

LAST INSPECTION 7/15/2003
 NORTHING _____
 EASTING _____
 ELEVATION _____

LAST INSPECTION INFORMATION		CURRENT INSPECTION INFORMATION	
WELL PAD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	WELL PAD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
BRASS SURVEY MARKER	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	BRASS SURVEY MARKER	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> ND*	MARKER STAMPED WITH SURVEY DATA	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MARKER STAMPED WITH WELL ID DATA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	MARKER STAMPED WITH WELL ID DATA	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
WELL LABELED WITH WELL ID	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	WELL LABELED WITH WELL ID	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
WELL LABELED WITH WELL NAME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	WELL LABELED WITH WELL NAME	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PROTECTIVE POSTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	PROTECTIVE POSTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
REMOVABLE POST IN PLACE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	REMOVABLE POST IN PLACE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
WELL LOCK	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> ND*	WELL LOCK	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
WELL DAMAGED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> ND*	WELL DAMAGED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
WELL IS DRY	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL IS DRY	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PARTED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO
BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	BENTONITE IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	WELL SANDED IN	<input type="checkbox"/> YES <input type="checkbox"/> NO
COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	COLLAPSED CASING	<input type="checkbox"/> YES <input type="checkbox"/> NO
EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	EQUIPMENT IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	DEBRIS IN WELL	<input type="checkbox"/> YES <input type="checkbox"/> NO
SURFACE EROSION	<input type="checkbox"/> MAJOR <input type="checkbox"/> NONE <input type="checkbox"/> MINOR <input checked="" type="checkbox"/> ND*	SURFACE EROSION	<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> NONE <input type="checkbox"/> MINOR
LAST PUMP INFORMATION		CURRENT PUMP INFORMATION	
PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> ND* <input type="checkbox"/> REMOVED	PUMP ACTIVITY PERFORMED	<input type="checkbox"/> INSTALLED <input type="checkbox"/> REPLACED <input type="checkbox"/> REMOVED
PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	PUMP TESTED	<input type="checkbox"/> YES <input type="checkbox"/> NO
NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> ND*	NEW PUMP	<input type="checkbox"/> YES <input type="checkbox"/> NO
ACTIVITY PERFORMED BY	L Walker	ACTIVITY PERFORMED BY	DF Giesbrecht
DATE ACTIVITY PERFORMED	7/15/2003	DATE ACTIVITY PERFORMED	10/1/03
PUMP TYPE	POSITIVE DISPLACEMENT	PUMP TYPE	NO PUMP
PUMP MAKE	HYDROSTAR	PUMP MAKE	
PUMP MODEL	2 ea 2" piezow/ hydrostars	PUMP MODEL	
PUMP INTAKE DEPTH (ft)		PUMP INTAKE DEPTH (ft)	
TUBING SIZE (in)	2	TUBING SIZE (in)	
TUBING MATERIAL	STAINLESS STEEL	TUBING MATERIAL	
TUBING LENGTH (ft)		TUBING LENGTH (ft)	
TUBING CONNECTION	ND*	TUBING CONNECTION	

ND* - Not Documented
 BH-E-231 (02/20/02)

7/15/03


SURVEY DATA REPORT

Request No.
073-271

File No.
6AT11R28

Project No.
A

Title:
Well Decommissioning A9788

Job No.
65400811.1225400

Prepared By
Tim Johnson

Date
5/30/2007

Reviewer

Larry Horke

Page
1 of 2

DESCRIPTION OF WORK

DISTRIBUTION

SDR

PLOT

DWG

Survey well location for A9788. If found, fill out WAR Report. If not found, set hub and lath. Take photo.

Coordinate System: US State Plane 1983

Zone: Washington South 4602

Project Datum: NAD 1983 (Conus)

Vertical Datum: NAVD 1988

Geoid Model: Geoid03

Units: Meters

Survey File

OR

B. Howard

1

C. Wright

1

G. Kelty

1

E. Rafuse

1

SURVEY RESULTS AND COMMENTS

Well ID# A9788 was found at the listed coordinates: N121668.32 E591055.38

Note: A9154 is the host well for A9788.

Completed WAR report.

Equipment Used: Trimble 5800 GPS Receiver, RTK

Photo

NOTE: This Survey was performed under the supervision of a Licensed Professional Land Surveyor registered in the State of

E-NW-246 (09/04)

This information is PROPRIETARY and is provided solely for use in conjunction with work managed and controlled by Fluor Federal Services.



WELL CONSTRUCTION AND COMPLETION SUMMARY

Drilling Method: Cable tool	Sample Method: Hard tool (nom)	WELL NUMBER: 699-S6-E4C A9154	TEMPORARY WELL NO: 321-3
Drilling Fluid Used: Not documented	Additives Used: Not documented	Hanford	
Driller's Name: Row	WA State Lic Nr: Not documented	Coordinates: N/S S 6,100 E/W E 3,781	
Drilling Company: Not documented	Company Location: Not documented	State Coordinates: N 399,212 E 2,299,122	
Date Started: 02Apr53	Date Complete: 06May53	Start Card #: Not documented	T 11N R 28E S 21L3
		Elevation Ground surface: 431.0-ft Estimated	

Depth to water: 45.2-ft 06May53
(Ground surface) 55.0-ft 08Apr96

DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)

Decommissioning activities: 03May96

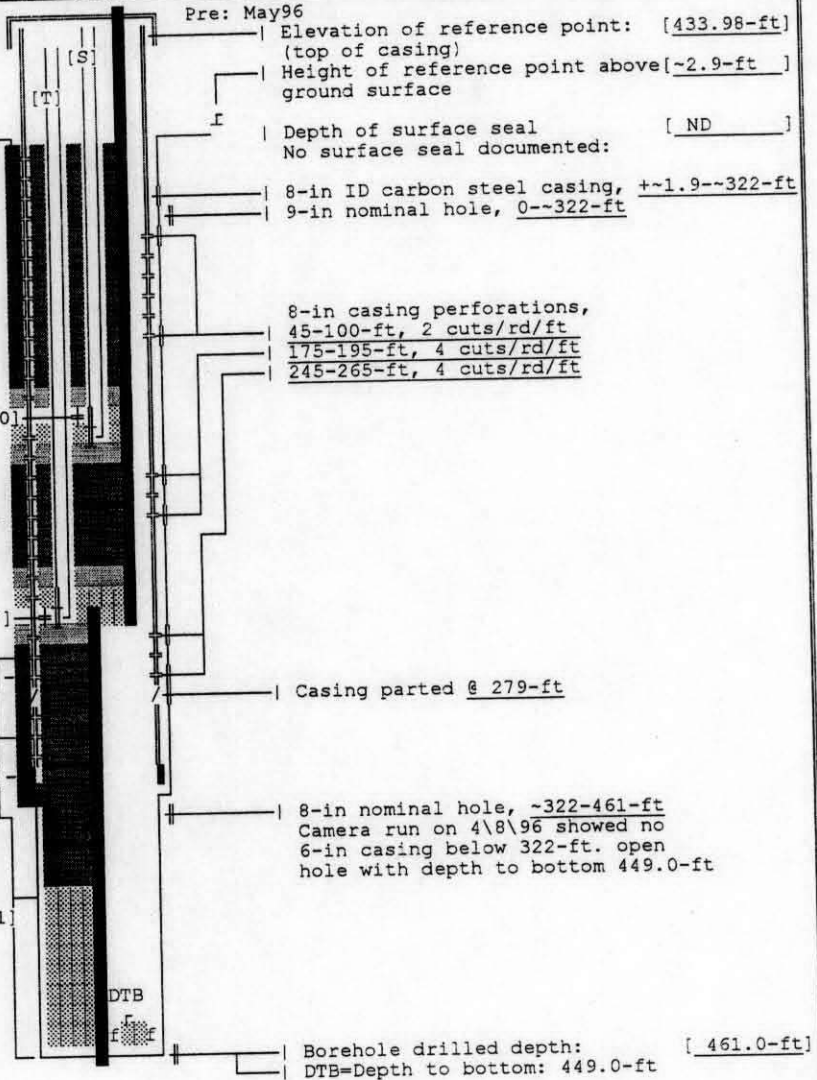
- [1] Placed 8-12 Silica sand from, 443-385-ft
- [2] Placed cement grout from 385-ft back to 314-ft, thru tremie, in stages
- [3] Perforated casing 290-305-ft
- [4] Set packer at 274-ft, unable to to force fluid into zone, Removed
- [5] Perforated 240-289-ft, 30-ft of fill material to 284-ft
- [6] Grouted from 284-227-ft, Depth to bottom 239.0-ft, 15May96

Remediation activities: 01Jul96

- [1] Perforated 8-in casing 175-212-ft
- [2] Placed sand from 230-215-ft
- [3] Set packer at 150-ft and pressure grout perfed zone, 215-174.5-ft
- [4] Drilled out plug and sand to 241-ft
- [5] Perforated casing 239-220-ft and 175-ft back to the surface
- [6] Placed bentonite pellets 237.7 to 235.4-ft
- [7] Set 2-in Piezo. 10-slot screen 232-227-ft with 2-in riser pipe back to surface, place filter pack to 223.8-ft, top with bentonite to 220.9-ft
- [8] Placed cement grout by tremie from 220.9-ft back to 159.5-ft
- [9] Placed bentonite seal to 153-ft and place sand to 150-ft
- [10] Placed 2-in piezo. 10-slot screen from 150-145-ft with 2-in riser pipe to surface, place appropriate filter pack to 142-ft and top with bentonite seal to 134.5-ft
- [11] Placed cement grout thru tremie from 134-ft back to surface
- [12] Added 1.0-ft of 8-in casing at surface

SURVEY DATA:

[S] Piezometer: 433.73-ft
[T] Piezometer: 433.71-ft



Drawing By: TJW/6S06E04C.ASB
Date : 18Sep96
Reference : HANFORD WELLS

SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS
RESOURCE PROTECTION WELL - 699-S6-E4C

WELL DESIGNATION : 699-S6-E4C
RCRA FACILITY : Not applicable
CERCLA UNIT : Not applicable
HANFORD COORDINATES : S 6,100 E 3,781 [HANFORD WELLS]
LAMBERT COORDINATES : N 399,212 E 2,299,122 [HANCONV]
DATE DRILLED : May53
DEPTH DRILLED (GS) : 461-ft
MEASURED DEPTH (GS) : Not documented
DEPTH TO WATER (GS) : 45.2-ft, 06May53, 55.0-ft, 08Apr96
CASING DIAMETER : 8-in, carbon steel, +2.9-322-ft;
6-in, carbon steel, ~320-461-ft
2-in, stainless steel Piezometer, +2.63-232-ft "T", 10-slot screen 5-ft long
2-in, stainless steel Piezometer, +2.65-150-ft "S", 10-slot screen 5-ft long
ELEV TOP OF CASING : 433.98-ft, [HANFORD WELLS]
433.73-ft, "S" piezometer
433.71-ft, "T" piezometer
ELEV GROUND SURFACE : 431.0-ft, Estimated
PERFORATED INTERVAL : 45-265-ft
SCREENED INTERVAL : 10-slot screen 145-150-ft, 10-slot screen 227-232-ft
COMMENTS : FIELD INSPECTION: Post, pad, and identification installed 11/05/96
OTHER: Borehole lower portion decommissioned, 03May96
Two 2-in Piezometers installed, 01Jul96
AVAILABLE LOGS : Driller
TV SCAN COMMENTS : Not applicable
DATE EVALUATED : Not applicable
EVAL RECOMMENDATION : Not applicable
LISTED USE : No water level data;
CURRENT USER : PNL sitewide characterization
PUMP TYPE : None documented
MAINTENANCE : Borehole remediated
REMEDIATIONS :

WELL CONSTRUCTION AND COMPLETION SUMMARY

Drilling Method: Cable tool
 Drilling Fluid Used: Not documented
 Driller's Name: Row
 Drilling Company: Not documented
 Date Started: 02Apr53
 Sample Method: Hard tool (nom)
 Additives Used: Not documented
 WA State Lic Nr: Not documented
 Company Location: Not documented
 Date Complete: 06May53

WELL NUMBER: 699-SG-E4C A9154 TEMPORARY WELL NO: 321-3
 Hanford
 Coordinates: N/S S 6,100 E/W E 3,791
 State Coordinates: N 399,212 E 2,299,122
 Start Card #: Not documented T 11N R 28E S 21L3
 Elevation
 Ground surface: 431.0-ft Estimated

Depth to water: 45.2-ft 06May53
 (Ground surface) 55.0-ft 08Apr96

DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)

Decommissioning activities: 03May96

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- [5] Perforated 240-289-ft, 30-ft of fill material to 284-ft
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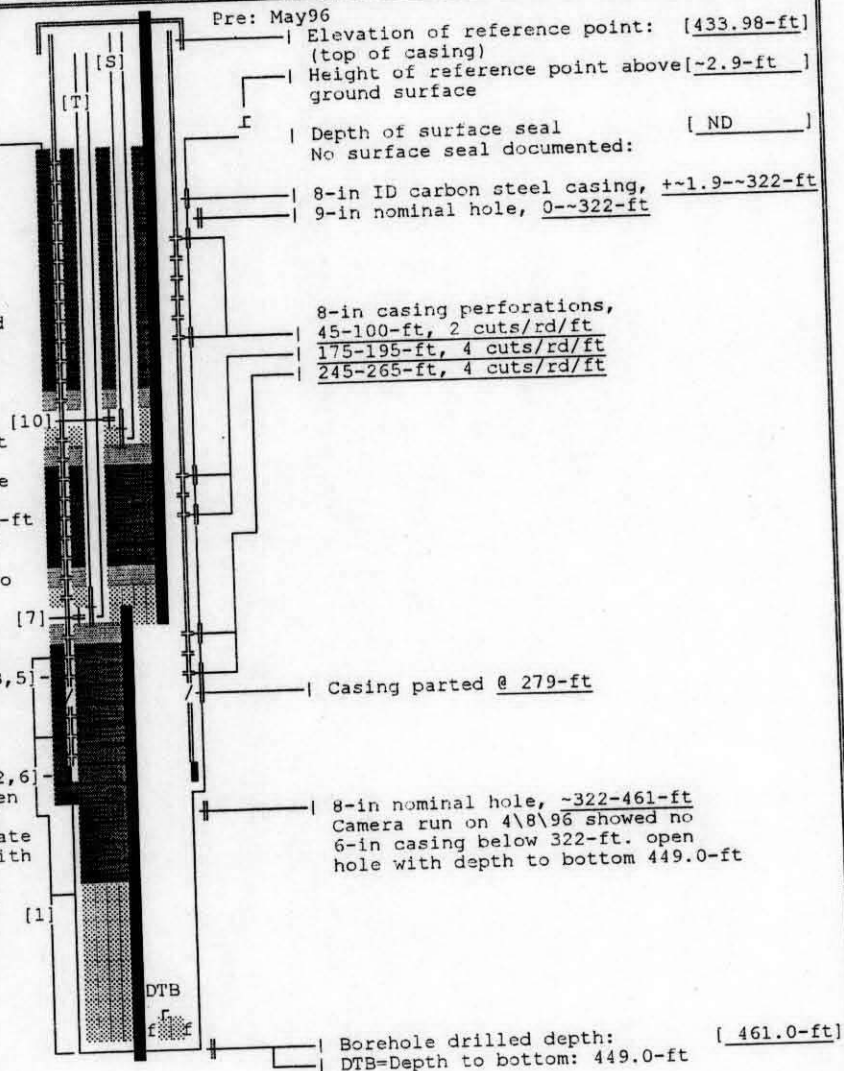
Remediation activities: 01Jul96

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- [2] Placed sand from 230-215-ft
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- [12] Added 1.0-ft of 8-in casing at surface

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 [T] Piezometer: 433.71-ft

Drawing By: TJW/6S06E04C.ASB
 Date: 18Sep96
 Reference: HANFORD WELLS



SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS
RESOURCE PROTECTION WELL - 699-S6-E4C

WELL DESIGNATION : 699-S6-E4C
RCRA FACILITY : Not applicable
CERCLA UNIT : Not applicable
HANFORD COORDINATES : S 6,100 E 3,781 [HANFORD WELLS]
LAMBERT COORDINATES : N 399,212 E 2,299,122 [HANCONV]
DATE DRILLED : May53
DEPTH DRILLED (GS) : 461-ft
MEASURED DEPTH (GS) : Not documented
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6-in, carbon steel, -320-461-ft
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ELEV GROUND SURFACE : 431.0-ft, Estimated
PERFORATED INTERVAL : 45-265-ft
SCREENED INTERVAL : 10-slot screen 145-150-ft, 10-slot screen 227-232-ft
COMMENTS : FIELD INSPECTION: Post, pad, and identification installed 11/05/96

OTHER: Borehole lower portion decommissioned, 03May96
Two 2-in Piezometers installed, 01Jul95

AVAILABLE LOGS : Driller
TV SCAN COMMENTS : Not applicable
DATE EVALUATED : Not applicable
EVAL RECOMMENDATION : Not applicable
LISTED USE : No water level data;
CURRENT USER : PNL sitewide characterization
PUMP TYPE : None documented
MAINTENANCE : Borehole remediated
REMEDIATIONS :

Query HWIS again

HWIS Interface - Well History Information - Drilling

WELL_ID	WELL_NAME	DRILL_DATE	START_CARD_NUMBER	DRILL_DEPTH	DRILL_DEPTH_UNITS	COMMENTS
A9154	699-S6-E4C	05/31/1953		461	ft	

SUMMARY OF CONSTRUCTION DATA AND FIELD OBSERVATIONS RESOURCE PROTECTION WELL - 699-S6-E4C

WELL DESIGNATION : 699-S6-E4C
 RCRA FACILITY : Not applicable
 CERCLA UNIT : Not applicable
 HANFORD COORDINATES : S 6,100 E 3,781 [HANFORD WELLS]
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 PERFORATED INTERVAL : 45-265-ft
 SCREENED INTERVAL : Not applicable
 COMMENTS : FIELD INSPECTION,
 OTHER:
 AVAILABLE LOGS : Driller
 TV SCAN COMMENTS : Not applicable
 DATE EVALUATED : Not applicable
 EVAL RECOMMENDATION : Not applicable
 LISTED USE : No water level data;
 CURRENT USER : PNL sitewide characterization
 PUMP TYPE : None documented
 MAINTENANCE :
 REMEDIATIONS :



WELL CONSTRUCTION AND COMPLETION SUMMARY

Drilling Method: <u>Cable tool</u>	Sample Method: <u>Hard tool (nom)</u>	WELL NUMBER: <u>699-S6-E4C</u> A9154	TEMPORARY WELL NO: <u>321-3</u>
Drilling Fluid Used: <u>Not documented</u>	Additives Used: <u>Not documented</u>	Hanford Coordinates: N/S <u>6,100</u> E/W <u>E 3,781</u>	
Driller's Name: <u>Row</u>	WA State Lic Nr: <u>Not documented</u>	State Coordinates: W <u>399,212</u> E <u>2,299,122</u>	
Drilling Company: <u>Not documented</u>	Company Location: <u>Not documented</u>	Start Card #: <u>Not documented</u>	T <u>11N</u> R <u>28E</u> S <u>21L3</u>
Date Started: <u>02Apr53</u>	Date Complete: <u>06May53</u>	Elevation Ground surface: <u>431.0-ft Estimated</u>	

Depth to water: 45.2-ft 06May53
(Ground surface) 55.0-ft 08Apr96

DIAGRAMMATIC DECOMMISSIONING ACTIVITIES (Depths from ground surface)

Decommissioning activities: 03May96

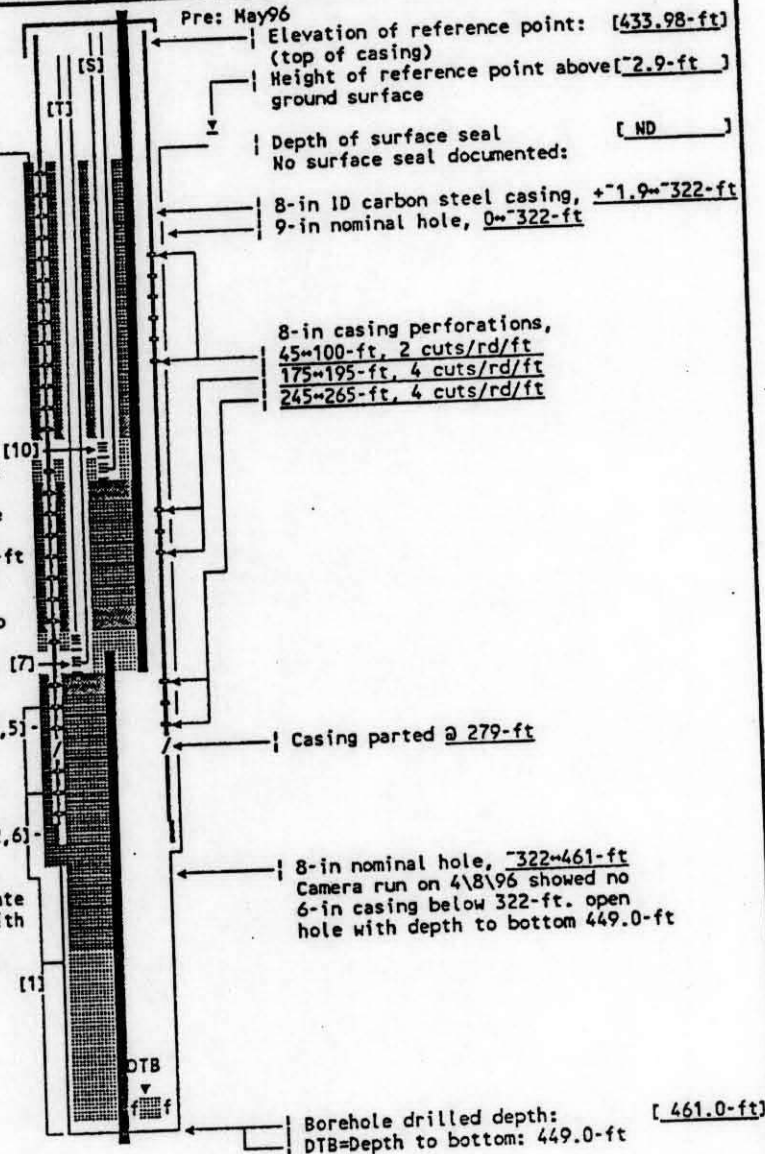
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Remediation activities: 01Jul96

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SURVEY DATA:

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[T] Piezometer: 433.71-ft



Drawing By: TJW/6SD06E04C.ASB
Date: 18Sep96
Reference: HANFORD WELLS

WELL CONSTRUCTION AND COMPLETION SUMMARY

Drilling Method: <u>Cable tool</u>	Sample Method: <u>Hard tool (nom)</u>	WELL NUMBER: <u>699-S6-E4C</u> <u>A9/S</u> TEMPORARY WELL NO: <u>321-3</u>
Drilling Fluid Used: <u>Not documented</u>	Additives Used: <u>Not documented</u>	Hanford
Driller's Name: <u>Row</u>	WA State Lic Nr: <u>Not documented</u>	Coordinates: N/S <u>S 6.100</u> E/W <u>E 3.781</u>
Drilling Company: <u>Not documented</u>	Location: <u>Not documented</u>	State
Date Started: <u>02Apr53</u>	Date Complete: <u>06May53</u>	Coordinates: N <u>399.212</u> E <u>2.299.122</u>
		Start Card #: <u>Not documented</u> T <u>11N</u> R <u>28E</u> S <u>21L3</u>
		Elevation Ground surface: <u>431.0-ft Estimated</u>

Depth to water: 45.2-ft 06May53
(Ground surface)

GENERALIZED Driller's
STRATIGRAPHY Log

0-20: SAND
20-25: Cae brn & white SAND, GRAVEL
25-30: GRAVEL & SAND
30-40: Fine brn & white GRAVEL
40-60: Fine GRAVEL & SAND
60-85: SAND, GRAVEL
85-91: SAND, GRAVEL & SILT
91-117: Heavy SILT, SAND, GRAVEL
117-200: Gray-blue SILT, SAND, GRAVEL
200-202: GRAVEL, SAND, SILT
202-233: Green SILT, SAND, fine GRAVEL
233-237: GRAVEL & SAND
237-255: Thick lava MUD, basalt GRAVELS, some SAND
255-275: Sandy blue-green SILT, very little GRAVEL
275-281: Fine SAND, more GRAVEL, some blue-green SILT
281-282.5: Basalt MUD & GRAVEL, SAND
282.5-295: Hard cemented GRAVEL & SAND
295-300: Dark SILT
300-305: Black-gray slimy MUD
305-307: GRAVEL, SAND, some WOOD
307-322: Black-gray slimy MUD
322-329: Blue SILT, GRAVEL, SAND
329-334: BASALT
334-337: Green sandy MUD, GRAVEL
337-367: Green-blue silty SAND w/GRAVEL
367-370: Black ASH & green sandy SILT
370-385: Acts like small layer of BASALT then ASH & GRAVEL
385-393: ASH, silty SAND, GRAVEL
393-415: Layers GRAVEL, green sandy SILT
414-425: Black MUD, GRAVEL, SAND (May be soft BASALT cuttings)
425-435: Reddish-brown MUD, GRAVEL, SAND
435-440: Soft reddish-brown BASALT
440-455: BASALT-honeycomb
455-461: BASALT-hard

REMEDICATIONS:

29-30Jun64 by Vincent
Perforated and installed 3 PVC piezometers @ 190, 260 and 449-ft
Jan76 by M Bultena
Removed piezometers and cleaned well to bottom

Drawing By: RKL/6S06E04C.ASB
Date: 06Sep74
Reference: HANFORD WELLS

Elevation of reference point: (432.98-ft)
(top of casing)
Height of reference point above (1.9-ft) ground surface
Depth of surface seal (ND)
No surface seal documented:
8-in ID carbon steel casing, +1.9-322-ft
9-in nominal hole, 0-322-ft
8-in casing perforations,
45-100-ft, 2 cuts/rd/ft
175-195-ft, 4 cuts/rd/ft
245-265-ft, 4 cuts/rd/ft
Casing parted @ 279-ft
8-in nominal hole, 322-461-ft
6-in liner assumed, @ 320-461-ft
Borehole drilled depth: (461.0-ft)



HWIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER	C
A9788	699-S6-E4CP	HGIS	NAD83(91)	01/17/2000	UNKNOWN	121668.32	591055.38	m		

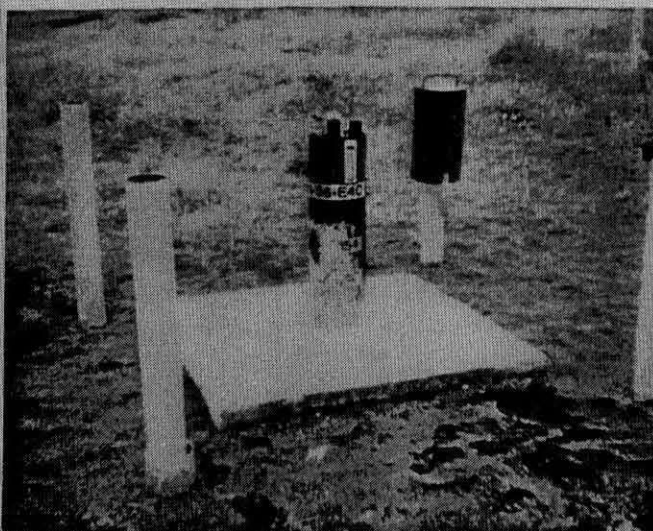
0515247

WELL SURVEY DATA REPORT					
ERC Project:			Prepared By: K.A. Prosser Company: BHI		
Date Requested: 1/17/00			Requestor: HGIS/HEIS		
Date of Survey: 1/17/00			Surveyor: K.A. Prosser, BHI		
ERC Point of Contact: L.A. Dietz			Survey Co. Point of Contact: n.a.		
Description of Work: Survey wells on PNNL's list of current sampling sites.			Horizontal Datum: NAD83(91)		
			Vertical Datum: NAVD88		
			Units: Meters		
			Hanford Area Designation: 600 Area		
Coordinate System: Washington State Plane Coordinates (South Zone)					
Horizontal Control Monuments: n.a., RTK OTF					
Vertical Control Monuments: n.a., RTK OTF					
Well Name	Well ID	Easting	Northing	Elevation	
699-S6-E4C	A9154				Center of Casing
					"X" on Rim
		591055.70	121668.5	132.61	Brass Cap
		591055.38	121668.32		N. side of casing
Notes:					
The GPS Job Name is "PNNL Wells" and the GPS Job Number is 316. A dual frequency Trimble 4000 SSI was used in RTK OTF mode. The approximate north side of the well's casing was surveyed as well as the approximate center of the brass cap.					
Surveyor Statement:					
The estimated precision, at 2 sigmas, does not exceed 10 cm horizontal and 10 cm vertical, based on Trimble GPSurvey's Coordinate Adjustment Summary report.					

RESOURCE PROTECTION WELL STRUCTURE FIELD INSPECTION REPORT

Well ID

179154



Well Name 6-S6-E4C(S,T) Date 5/14/97

Inspector (print) D. Hollingsworth

Signature D. Hollingsworth

WELL IDENTIFICATION ID MARKINGS

Is the well labeled? ☒ Yes ☐ No

If yes, should the casing be relabeled? ☐ Yes ☒ No

Does the well have a brass marker? ☐ Yes ☒ No

If yes, is the brass marker stamped with well ID? ☐ Yes ☐ No

Does the casing need to be painted/repainted thus requiring relabeling? ☐ Yes ☒ No

Irregularities _____

6-S6-E4C

6/4/97

D. Hollingsworth

WELL SITE IDENTIFICATION

Does well have a barber pole? ☐ Yes ☐ No

Does well have an identification sign posted at entrance to access route? ☐ Yes ☒ No

Is well located in or around a particular facility? (e.g., 216-A-10 crib, B-Y Tank Farms, B-Pond, etc.) ☒ Yes ☐ No

Is well located in a radiation zone? ☐ Yes ☒ No

If no, is one needed? ☐ Yes ☐ No

If no, is one needed? ☐ Yes ☐ No

If yes, identify facility Little Egypt

If yes, describe zone type _____

Irregular/Damage (describe) _____

INSPECT WELL SURFACE PROTECTION MEASURES

WELL CAPS

Is the well capped? ☒ Yes ☐ No

Is the cap able to be locked? ☒ Yes ☐ No

Is the cap locked? ☒ Yes ☐ No

Describe existing problems with well cap, if any, or check none: ☐ None

has hasp on both cap and casing, should have hasp removed on casing

CONCRETE PAD

☒ None ☒ 4 ft x 4 ft ☐ 18 in. x 18 in. ☐ 2 ft round

Is it damaged? ☐ Yes ☒ No

Irregular/Damage (describe) _____

BARRIER POSTS

Four posts, min. 3 in. ID, 1 removable? ☒ Yes ☐ No

How many posts? _____

Diameter of posts? _____

Is there a removable post? ☐ Yes ☐ No

Irregular/Damage (describe) _____

CASING INFORMATION

CASING DIAMETERS: OUTER (SURFACE), INNER, AND OTHER - RECORD IN INCHES

State diameter of casing. Describe type of casing (e.g., carbon steel, stainless steel, PVC, etc.)

Outer casing: OD/ID: 2 5/8 / 5" Type C.S.
Inner casing: OD/ID: 2" Type S.S.
Other casing: OD/ID: 2" Type S.S.
Other casing: OD/ID: _____ Type _____

Describe condition of top edge of the highest most casing:

☐ Jagged ☐ Uneven ☒ Fairly Level ☐ Beveled

Other (describe) _____

Describe protective casing damage, if any (e.g., hole in casing, bent, etc.), or check none:

☒ None

Distance from: (check one)

☒ Ground Surface

☐ Cement Pad

To top edge of highest most casing

2.5'

SAMPLING EQUIPMENT INSTALLATION

Describe type of pump system:

☒ Hydrostar

☐ Submersible

☐ Bladder

☐ None

Describe type of pump system support:

☒ Hydrostar Plate

☐ Well Seal

☐ J-Hook

☒ Steel Cable

☐ Pitless Adapter

Describe type of pump system:

☒ 3/4 in. Stainless Steel

☐ 1 1/2 in. ABS

☐ 1 in. PVC

☐ 1 1/2 in. galvanized

Other (describe) _____

WELL SITE SAFETY

Describe debris present at well site, if any, or check none:

☒ None

Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:

☐ None

Soft sand near well, also on gentle slope.

SURVEY INFORMATION

Describe survey mark location:

☐ Top edge of highest most casing

☐ Brass Marker

☐ Both

☒ None

Is stamp clearly visible?

☐ Yes

☐ No

Other (describe) _____

DEPTH MEASUREMENTS

Depth to Water:

S. 63.46
T. 63.80

Depth to Bottom:

5 - 234.70
7 - 152.24

Comments: _____

COMMENTS

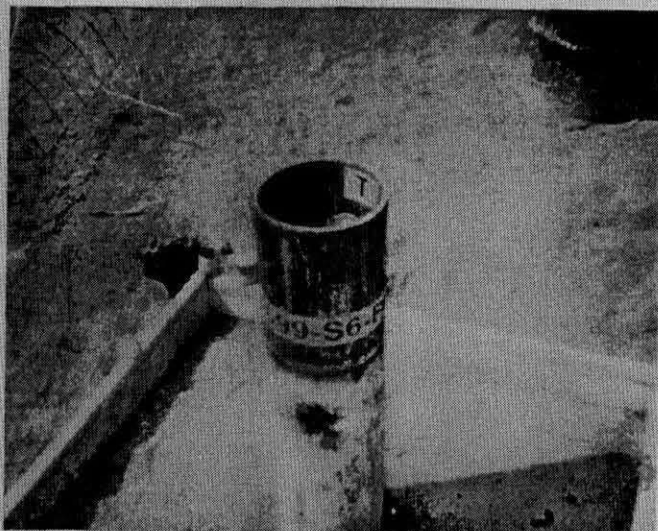


RESOURCE PROTECTION WELL STRUCTURE FIELD INSPECTION REPORT

Input

A9154

Well ID



Well Name 6-S6-E4C Date 8/28/96

Inspector (print) S. H. Worley

Signature [Signature]

WELL IDENTIFICATION ID MARKINGS

- Is the well labeled? ☒ Yes ☐ No
- If yes, should the casing be relabeled? ☒ Yes ☐ No
- Does the well have a brass marker? ☐ Yes ☒ No
- If yes, is the brass marker stamped with well ID? ☐ Yes ☒ No
- Does the casing need to be painted/repainted thus requiring relabeling? ☐ Yes ☐ No

Irregularities _____

6-S6-E4C 8/28/96

[Signature]

WELL SITE IDENTIFICATION

- Does well have a barber pole? ☒ Yes ☒ No
- Does well have an identification sign posted at entrance to access route? ☐ Yes ☒ No
- Is well located in or around a particular facility? (e.g., 216-A-10 crib, B-Y Tank Farm, B-Pond, etc.) ☒ Yes ☐ No
- Is well located in a radiation zone? ☐ Yes ☒ No
- If no, is one needed? ☐ Yes ☒ No
- If no, is one needed? ☐ Yes ☒ No
- If yes, identify facility N.W. of Little Egypt
- If yes, describe zone type _____
- Irregular/Damage (describe) _____

INSPECT WELL SURFACE PROTECTION MEASURES

WELL CAPS

- Is the well capped? ☒ Yes ☐ No
- Is the cap able to be locked? ☒ Yes ☐ No
- Is the cap locked? ☐ Yes ☒ No
- Describe existing problems with well cap, if any, or check none: Needs lock ☐ None

15

BARRIER POSTS



Posts al to be i ☐ Yes ☐ No talled They ite

CASING INFORMATION

CASING DIAMETERS: OUTER (SURFACE), INNER, AND OTHER - RECORD IN INCHES

Indicate diameter of casing. Describe type of casing (e.g., carbon steel, stainless steel, PVC, etc.)

Outer casing: OD/ID: 8 5/8" / 7 7/8" Type: C.S.
 Inner casing: OD/ID: 2" Type: SS Piezo "S"
 Other casing: OD/ID: 2" Type: SS. Piezo "T"
 Other casing: OD/ID: _____ Type: _____

Describe condition of top edge of the highest most casing:

☒ Jagged ☐ Uneven ☒ Fairly Level ☐ Beveled

Other (describe) _____

Describe protective casing damage, if any (e.g., hole in casing, bent, etc.), or check none:

☒ None

Distance from: (check one)

☐ Ground Surface

☒ Cement Pad

when poured!

To top edge of highest most casing

2.55'

SAMPLING EQUIPMENT INSTALLATION

Describe type of pump system:

☐ Hydrostar

☐ Submersible

☐ Bladder

☒ None

Describe type of pump system support:

☐ Hydrostar Plate

☐ Well Seal

☐ J-Hook

☐ Steel Cable

☐ Pitless Adapter

Describe type of pump system:

☐ 3/4 in. Stainless Steel

☐ 1 1/2 in. ABS

☐ 1 in. PVC

☐ 1 1/2 in. galvanized

Regular/Damage (describe) _____

WELL SITE SAFETY

Describe debris present at well site, if any, or check none:

☐ None

6 Drums Wire & Posts for pad to be installed

Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:

☒ None

SURVEY INFORMATION

Describe survey mark location:

☐ Top edge of highest most casing

☐ Brass Marker

☐ Both

☐ None

Is stamp clearly visible?

☐ Yes

☐ No

Other (describe) _____

DEPTH MEASUREMENTS

Depth to Water: _____

Depth to Bottom: _____

Comments: See Below

COMMENTS

Piezos:

6-S6-E4C "S" DTW=64.08 DTB=234.74' TOC

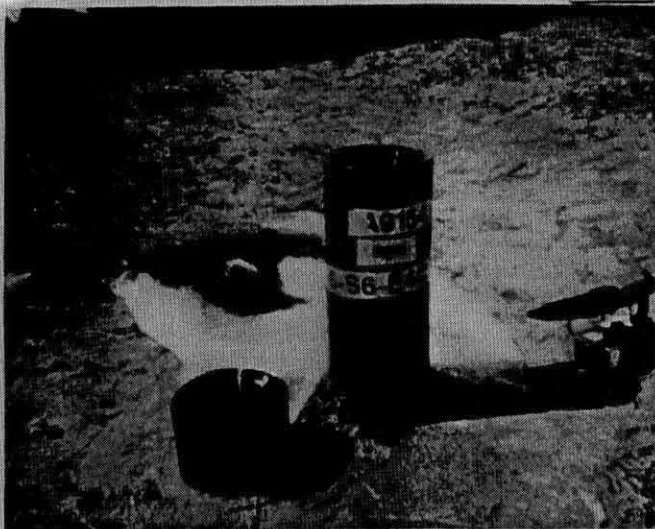
6-S6-E4C "T" DTW=63.41 DTB=152.88' TOC



JUN 8 1996

A 9154

RESOURCE PROTECTION WELL STRUCTURE FIELD INSPECTION REPORT



6-S6-E4C
4/5/96

D. Hollingsworth

Well Number 699-S6-E4C Date 4/5/96

Inspector (print) D E Hollingsworth

Signature D. E. Hollingsworth

WELL IDENTIFICATION ID MARKINGS

Is the well labeled? ☒ Yes ☐ No

If yes, should the casing be relabeled? ☐ Yes ☒ No

Does the well have a brass marker? ☐ Yes ☒ No

If yes, is the brass marker stamped with well ID? ☐ Yes ☐ No

Does the casing need to be painted/repainted thus requiring relabeling? ☐ Yes ☒ No

Irregularities UNABLE TO LOCK CAP.

WELL SITE IDENTIFICATION

Does well have a barber pole? ☒ Yes ☐ No

Does well have an identification sign posted at entrance to access route? ☐ Yes ☒ No

Is well located in or around a particular facility? (e.g., 216-A-10 crib, B-Y Tank Farms, B-Pond, etc.) ☐ Yes ☒ No

Is well located in a radiation zone? ☐ Yes ☒ No

If no, is one needed? ☐ Yes ☐ No

If no, is one needed? ☒ Yes ☐ No

If yes, identify facility _____

If yes, describe zone type _____

Irregular/Damage (describe) _____

INSPECT WELL SURFACE PROTECTION MEASURES

WELL CAPS

Is the well capped? ☒ Yes ☐ No

Is the cap able to be locked? ☐ Yes ☒ No

Is the cap locked? ☐ Yes ☒ No

Describe existing problems with well cap, if any, or check none: ☐ None

Needs hoops and new cap.

CONCRETE PAD

☒ None ☐ 4 ft x 4 ft ☐ 18 in. x 18 in. ☐ 2 ft round

Is it damaged? ☐ Yes ☐ No

Irregular/Damage (describe) _____

BARRIER POSTS

posts, min. 3 in. ID, 1 removable? ☐ Yes ☒ No

Describe barrier posts: _____

How many posts? _____

Diameter of posts? _____

Is there a removable post? ☐ Yes ☐ No

Irregular/Damage (describe) _____

CASING INFORMATION

CASING DIAMETERS: OUTER (SURFACE), INNER, AND OTHER - RECORD IN INCHES

Indicate diameter of casing. Describe type of casing (e.g., carbon steel, stainless steel, PVC, etc.)

Outer casing: OD/ID: 8 1/2" / 8" Type C.S.
 Inner casing: OD/ID: _____ Type _____
 Other casing: OD/ID: _____ Type _____
 Other casing: OD/ID: _____ Type _____

Describe condition of top edge of the highest most casing:

☐ Jagged ☐ Uneven ☒ Fairly Level ☐ Beveled

Other (describe) _____

Describe protective casing damage, if any (e.g., hole in casing, bent, etc.), or check none:

☐ None

2 holes in casing (Lifting holes)

Distance from: (check one)

☒ Ground Surface ☐ Cement Pad

To top edge of highest most casing 1.85'

SAMPLING EQUIPMENT INSTALLATION

Describe type of pump system:

☐ Hydrostar ☐ Submersible ☐ Bladder ☒ None

Describe type of pump system support:

☐ Hydrostar Plate ☐ Well Seal ☐ J-Hook ☐ Steel Cable ☐ Pitless Adapter

Describe type of pump system:

☐ 3/4 in. Stainless Steel ☐ 1 1/2 in. ABS ☐ 1 in. PVC ☐ 1 1/2 in. galvanized

Other (describe) _____

WELL SITE SAFETY

Describe debris present at well site, if any, or check none:

☐ None

2" PVC screens, Poly tubing

Describe well site irregularities (e.g., down in pit, locked building, overhead electrical power lines, on slope), or check none:

☒ None

SURVEY INFORMATION

Describe survey mark location:

☐ Top edge of highest most casing ☐ Brass Marker ☐ Both ☒ None

Is stamp clearly visible?

☐ Yes ☒ No

Other (describe) _____

DEPTH MEASUREMENTS

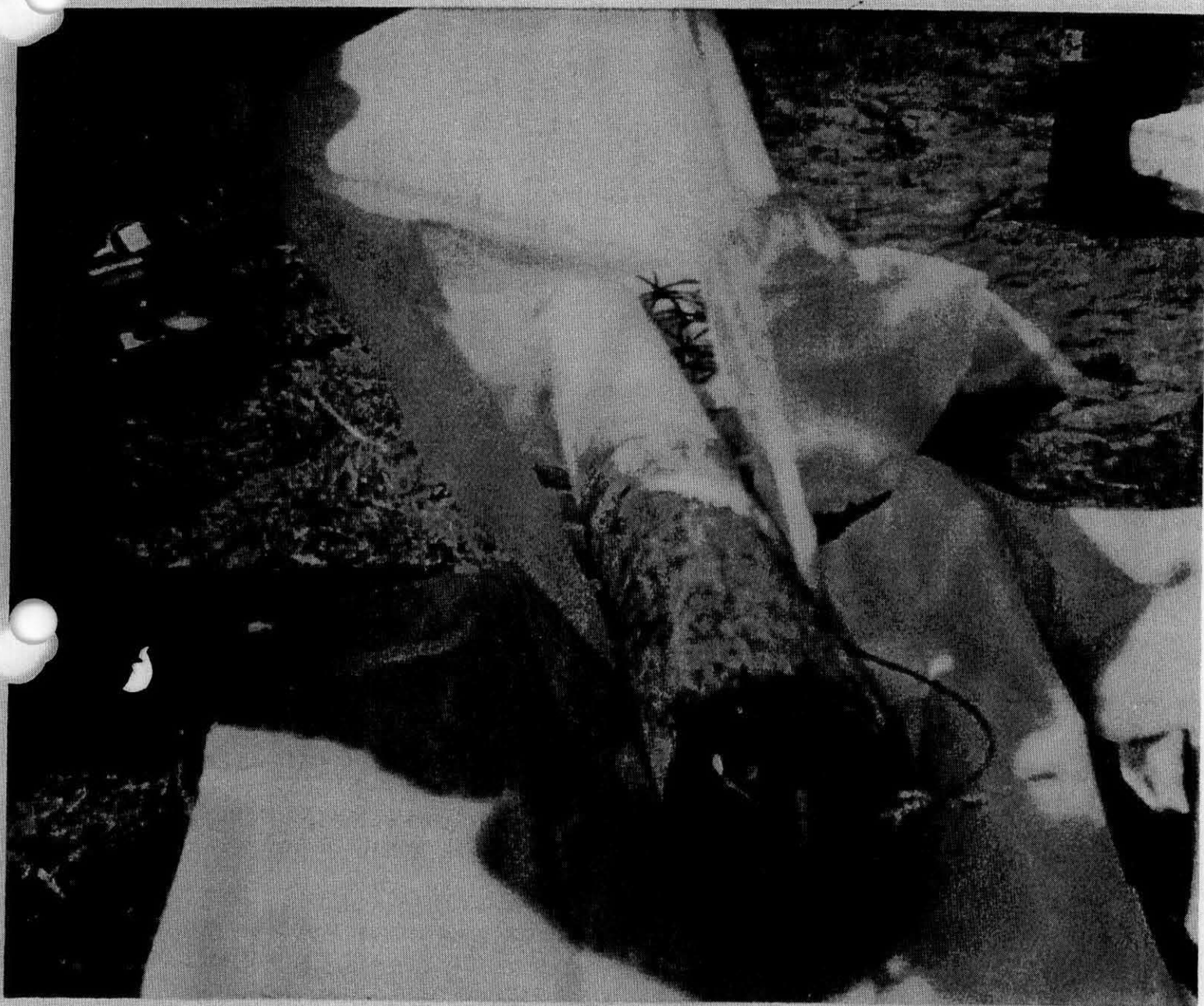
Depth to Water: 53.0'

Depth to Bottom: 449'

Comments: _____

COMMENTS

well has contamination on eq-pt. removed from well.



Pvc Plug out of 6-56-E4

4/5/96

D.E. Hollaynith

X

**WELL SERVICES REQUEST
RESOURCE PROTECTION WELL SERVICES**

COMPLETED BY NOTIFYING ORGANIZATION

Well Name/No. 6-S6-E4C	Date Identified 04/01/96	Identified By (Printed Name and Signature) V.R. VERNEUL/PER CC:MAIL MESSAGE	No. <u>MA</u>
---------------------------	-----------------------------	--	---------------

DESCRIPTION OF/REASON FOR WELL SERVICES REQUEST

Item 1: PERFORM A CAMERA SURVEY.
NA

Item 2: PERFORM FISHING OPERATION TO REMOVE LOST BAILER FROM THE WELL.
NA

Item 3: _____

Above item(s) prevent sample collection: If yes, sample collection required by: <u>NA</u> Latest Date	1. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 2. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 3. Yes <input type="checkbox"/> No <input type="checkbox"/>	Notification By <u>S.H. WORLEY</u> Title/Organization <u>ADV. PLANT ENGINEER/W.S.</u> Signature/Date <u>S.H. Worley</u> <u>04/04/96</u>
--	---	---

FORWARD TO: GROUNDWATER WELL SERVICES SECTION, ENVIRONMENTAL DIVISION, WHC

COMPLETED BY GROUNDWATER WELL SERVICES SECTION

Notification Received by - Signature/Date: <u>S.H. Worley</u> <u>04/04/96</u>	Assigned Priority Levels Item 1: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> Item 2: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> Item 3: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
WSR No.: <u>96-158</u> Planning Report No.(s): <u>96-158P</u>	

WELL SERVICES PERFORMED

Item 1: Camera Survey completed, could not use camera that records no info is on camera survey from dot on a video.
NA
Printed Name/Signature/Date: DE Hollingsworth/D.E. Hollingsworth 4/15/96

Item 2: Removed a large PVC "plug" from well.
NA
Printed Name/Signature/Date: DE Hollingsworth/D.E. Hollingsworth 4/15/96

Item 3: _____
NA
Printed Name/Signature/Date: _____

Closed Out By: S.H. WORLEY S.H. Worley 4-19-96
Printed Name/Signature/Date

FOLLOWING CLOSURE OF ALL ITEMS, FORWARD COMPLETED COPY TO NOTIFYING ORGANIZATION.

DISTRIBUTION: White-Field File Custodian Yellow-Group Files Pink-Returned to Notifying Organization
Goldenrod-Retained by Notifying Organization

BC-6000-316 (04/91)

X

Well ID A9154		WELL SERVICES REQUEST RESOURCE PROTECTION WELL SERVICES	
COMPLETED BY NOTIFYING ORGANIZATION			
Well Name 6-S6-E4C	Date Identified 08/27/96	Identified By (Printed Name and Signature) V.R. VERMEUL/PER PHONE CALL	No. NA
DESCRIPTION OF REASON FOR WELL SERVICES REQUEST			
Item 1: SUPPORT GROUNDWATER SAMPLING/TESTING.			
Item 2: NA			
Item 3:			
Above Item(s) prevent sample collection: If yes, sample collection required by: NA Latest Date		1. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 2. Yes <input type="checkbox"/> No <input type="checkbox"/> 3. Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Notification By S.H. WORLEY Title/Organization ADV. PLANT ENGINEER/W.S. Signature/Date [Signature] 8/27/96	

FORWARD TO: WELL SERVICES, WHC

COMPLETED BY WELL SERVICES

Notification Received by - Signature/Date: [Signature] 8/27/96		Assigned Priority Levels	
WBR No.: 96-255	Planning Report No.(s): SURFACE TASK	Item 1: 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	Item 2: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
WELL SERVICES PERFORMED			
Item 1: Completed sampling and testing per cog. eng.			
Item 2:			
Item 3:			
Printed Name/Signature/Date: D.E. Hollingsworth D.E. Hollingsworth 8/29/96			
Item 2:			
Item 3:			
Printed Name/Signature/Date:			
Issued Out By: S.H. WORLEY [Signature] 9-17-96			
Printed Name/Signature/Date:			
FOLLOWING CLOSURE OF ALL ITEMS, FORWARD COMPLETED COPY TO NOTIFYING ORGANIZATION.			

DISTRIBUTION: White-Field File Custodian Yellow-Group Files Pink-Returned to Notifying Organization
Goldenrod-Retained by Notifying Organization

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128

Well No. 321-3

Driller Row

Foreman _____

Date 4/3/53

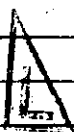
Shift _____

Depth beginning of Shift 15'

Depth completion of Shift 55'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:50 to 8:20	Welding 7' Pipe (24' 9" Over hole)
8:20 to 8:50	20'	Coarse sand, brown and white, gravel.				
8:50 to 9:35	25'	Gravel and sand				
					9:35 to 9:55	Welding 7' 2" Pipe (31' 11" Over hole)
9:55 to 10:45	30'	Fine brown and white sand, gravel			10:45 to 11:15	Welding 6' 11" Pipe (38' 10" Over hole)
11:15 to 11:45	35'	Fine brown and white sand, gravel				
11:45 to 12:30	40'	Fine gravel, sand.				
					12:30 to 1:00	Welding 7' Pipe (45' 10" Over hole)
1:00 to 1:30	45'	Fine gravel and sand				
					1:30 to 2:00	Welding 7' 1" Pipe (52' 11" Over hole)
2:00 to 2:40	50'	Fine gravel and sand			2:40 to 3:10	Welding 6' 11" Pipe (59' 10" Over hole)
3:10 to 4:00	55'	Fine gravel and sand.				

REMARKS



DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Well No. 321-3Driller Row

Foreman _____

Date 4/6/53

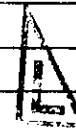
Shift _____

Depth beginning of Shift 55'Depth completion of Shift 78'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location.
					7:50 to 8:30	Welding 6'11" Pipe (66'9" over hole)
8:30 to 10:30	60'	Gravel, sand, caves-uses lots of water				
10:30 to 12:15	65'	"	"	"	"	"
					12:15 to 12:45	Welding 6'11" Pipe 73'-8"
12:45 to 1:55	70'	Sand, gravel, caves, loses water				
					1:55 to 2:25	Welding 6'11" Pipe 80'-7"
2:25 to 3:25	75'	Sand and gravel				
3:25 to 4:00	78'	Sand, gravel and water				

REMARKS

Water at 76'



DRILL LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Well No. 321-3Driller Row

Foreman _____

Date 4/9/53

Shift _____

Depth beginning of Shift 78'Depth completion of Shift 98'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:05	Testing for water
8:05 to 8:35	80'	Sand, Gravel				
9:05 to 10:30	85'	Sand, gravel and silt				
10:30 to 12:20	90'	Sand, gravel, heavy silt. Lite formation				
					12:20 to 1:50	Welding 7' pipe 94'11" Over hole
1:50 to 3:00	95'	Sand, gravel, heavy silt				
					3:00 to 3:30	Welding 6'-11" Pipe 101'10" overhole
3:30 to 4:00	98'	Sand, gravel, heavy silt.				

REMARKS

Water was 75 ft from L.S.L.

85 to 91 heavy silty sand, some gravel, drills slow and hard. Makes lots of mud.



DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Well No. 321-3Driller Row

Foreman _____

Date 4/10/53

Shift _____

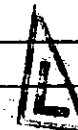
Depth beginning of Shift 98'Depth completion of Shift 120'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:05	Testing for water.
8:05 to 8:30	100'	Heavy silt,	sand and gravel.			
8:30 to 9:30	105'	Heavy silt,	sand and gravel			
					9:30 to 10:00	Welding 7'-6" Pipe (109'-4" Over hole)
10:00 to 11:30	110'	Heavy silt,	sand and gravel			
					11:30 to 12:00	Welding 7'-1" Pipe (116'-5" Over hole)
					12:00 to 12:30	changing bits.
12:30 to 1:45	115'	Heavy silt,	sand and gravel			
1:45 to 3:00	120'	Dark grayish blue silt &	sand, gravel			
					3:00 to 4:00	Loading tools and hauling.

REMARKS

Water was 72'-6" from L.S.L.

at 117 ft., hit grayish blue-silt with sand and gravel.



DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Well No. 321-3Driller Row

Foreman _____

Date 4/13/53

Shift _____

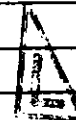
Depth beginning of Shift 120'

Depth completion of Shift _____

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:15	Testing for water.
					8:15 to 8:45	Welding 6'-11" Pipe (123'-4" Over hole)
8:45 to 10:40	125'	Grayish-blue silt-sand, gravel, mud				
					10:40 to 11:10	Welding 7' Pipe (130'-4" Over hole)
11:10 to 12:40	130'	"	"	"	12:40 to 1:10	Welding 6'-11" Pipe (137'-3" Over hole)
1:10 to 2:45	135'	"	"	"		
2:45 to 4:00	140'	"	"	"		

REMARKS

120 to 140' grayish blue silt, sand, fine to coarse gravel, makes lots of mud and mud is up. Caves badly.
 This formation lays in layers of silt and sand then a layer of gravel.



DRILLING LOG

PROJECT NO. _____

 Rig No. A.E.C. 22-3128

 Well No. 321-3

 Driller Row

Foreman _____

 Date 4/14/53

Shift _____

 Depth beginning of Shift 140'

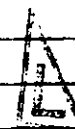
 Depth completion of Shift 163'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location.
					7:50 to 8:15	Testing for water.
					8:15 to 8:45	Welding 7'-1" Pipe 144'-4" Over hole
8:45 to 10:30	145'	Bluish-gray silt, sand, gravel				
					10:30 to 11:00	Welding 7' pipe 151'-4" Over hole
11:00 to 12:00	150'	"	"	"		
12:00 to 1:20	155'	"	"	"	1:20 to 1:50	Welding 10'-7" Pipe 161'-11" Over hole
1:50 to 3:15	160'	"	"	"		
3:15 to 4:00	163'	"	"	"		

REMARKS

This mud smell like hell. Rotten eggs.

This formation has lots of bluish gray silt with lots of gravel. up to 4"



NW-6-28

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128

Date 4/15/53

Well No. 321-3

Shift _____

Driller Row

Depth beginning of Shift 163'

Foreman

Depth completion of Shift 185'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:10	Taking water sample
					8:10 to 8:40	Welding 6'-11" Pipe (168'-10" Over hole)
8:45 to 9:10	165'	Bluish gray	silt, gravel, sand.			
9:10 to 10:40	170'	Bluish gray	silt, gravel, sand.			
					10:40 to 10:50	Welding 7' Pipe 175'-10" Over hole
10:50 to 12:05	175'	Bluish gray	silt, gravel, sand			
12:05 to 1:15	180'	Bluish gray	silt, gravel, sand			
					1:15 to 1:45	Welding 9'9" Pipe (185'-8" Over hole)
1:45 to 2:30	185'	Bluish gray	silt, less gravel		2:30 to 4:00	Repairing machine.

REMARKS

DRILLING LOG

PROJECT NO. _____

 Rig No. A.E.C. 22-3128

 Date 4/16/53

 Well No. 321-3

Shift _____

 Driller Row

 Depth beginning of Shift 185'

Foreman _____

 Depth completion of Shift 195'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 8:00	Driving to 200 East
					8:00 to 10:45	Repairing Machine
					10:45 to 12:	Putting on Jars-Changing bits & Rope socket
12:00 to 1:15	190'	Sand, gravel, silt, bluish gray				
					1:15 to 1:45	Welding 6'-11" Pipe (192'-7" Over hole)
1:45 to 3:30	195'	"	"	"		
					3:30 to 4:00	Welding 7' Pipe (199'-7" Over hole)

REMARKS

Water was 79.5 feet from L.S.L.

185 to 195 - Drills slow-Balls hard.



DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Date 4/17/53Well No. 321-3

Shift _____

Driller RowDepth beginning of Shift 195'

Foreman _____

Depth completion of Shift 230'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:05	Testing for water.
8:05 to 9:20	200'	2 ft gravel,	sand, silt	3 ft gr. silt & sand		
9:20 to 9:50	205'	Green silt,	sand, fine gravel		9:50 to 10:20	Welding 10'-1" Pipe (209'-8" over hole)
10:20 to 11:15	210'	" "	" "	"		
11:15 to 12:00	215'	" "	" "	"	12:00 to 12:30	Welding 7'-8" Pipe 217'-4" over hole
12:30 to 1:20	220'	" "	" "	"	1:20 to 1:50	Welding 7'-7" Pipe 224'-11" over hole
1:50 to 2:30	225'	" "	" "	"		
2:30 to 3:15	230'	Green silt,	small bits of shale, sand,	small gravel		
					3:15 to 3:45	Welding 7'-3" pipe (232'-2" over hole)
					3:45 to 4:00	Cleaning out hole and bailing.

REMARKS

197' to 230' hit green silt with fine sand. Some gravel/also small bits of shale as you go into formation.

Drills good, bails hard. Mud is up badly. So muddy the bailer will not follow.



DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Date 4-20-53Well No. 321-3

Shift _____

Driller RowDepth beginning of Shift 230'

Foreman _____

Depth completion of Shift 255'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
8:05 to 8:40	235'	3 ft green silt, 2 ft	gravel & sand		7:50 to 8:05	Measuring and sampling water.
					8:40 to 9:10	Welding 6'-11" Pipe (239'-1" Over hole)
9:10 to 10:10	240'	2 ft gravel	-3 ft			
					10:10 to 10:40	Welding 7' pipe (246'-1" Over hole)
10:40 to 12:00	245'	Thick lava mud. Basalt	gravels, sand			
12:00 to 1:40	250'	" "	" "	" "		
					1:40 to 2:10	Welding 7' Pipe (253'-1" Over hole)
2:10 to 3:45	255'	" "	" "	" "		
					3:45 to 4:00	Cleaning out hole

REMARKS

^{surface}
Water was 100 ft from Land ~~sea~~ level.

Left the greenish silt, and went into gravel at 233' to 237'. 237' to 255' heavy mud with lots of basalt gravels and some sand.

A

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Well No. 321-3Driller Row

Foreman _____

Date 4/21/53

Shift _____

Depth beginning of Shift 255'Depth completion of Shift 285'

DRILLING		CORING		TYPE SOIL		OTHER DELAYS	
Time	Depth	Time	Depth			Time	Explanation
						7:35 to 7:50	Driving to location.
						7:50 to 8:10	Testing and measuring water.
						8:10 to 8:40	Welding 7'-7" Pipe (260'-8" Over hole)
8:40 to 9:30	260'	Sandy bluish-green silt, very little gravel					
9:30 to 10:00	265'	"	"	"	"	10:00 to 10:30	Welding 7'-3" Pipe (267'-11" Over hole)
10:30 to 11:00	270'	"	"	"	"	11:00 to 11:30	Welding 6'-11" Pipe (274'-10" Over hole)
11:30 to 12:00	275'	"	"	"	"		
12:00 to 1:15	280'	Sand, gravel, silt-green					
						1:15 to 1:45	Welding 7' Pipe (281'-10" Over hole)
1:45 to 3:30	285'	Basalt mud and gravel, sand					
						3:30 to 4:00	Welding 7' Pipe (288'-10" Over hole)

REMARKS

Water was 85' from L.S.L. This water is coming from a lower strata. 255' to 275' Sandy Blue-green silt. Very little gravel. Some layers of gravel up to 2 $\frac{1}{2}$ " Diameter. 275'-281' Fine sand, more gravel. Some blue-green silt. 281' to 285' Slimy black mud. Basalt chips with some 4" Basalt. Gravel and sand. This formation drills slow and hard. Bails good. Pipe stopped at 282.5' Forced pipe through this formation. Got out. Some fairly large gravel. This formation is very tight.

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Date 4/22/53Well No. 321-3

Shift _____

Driller RowDepth beginning of Shift 285'

Foreman _____

Depth completion of Shift 300'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location.
					7:50 to 8:10	Testing for water.
					8:10 to 9:00	Driving pipe. Drove to 285'
9:00 to 9:40	288'	Hard cemented gravel and sand.				
					9:40 to 10:00	Driving pipe. Drove to 287½'
					10:00 to 10:30	Changing bit.
10:30 to 11:25	290'	Hard Cemented gravel and sand.			11:25 to 11:55	Welding 7'-7" Pipe (296'-5" Over hole)
11:55					11:55 to 12:45	Swaging out pipe.
1:45 to 3:30	295'	Hard cemented gravel and sand.				
3:30 to 4:00	300'	Dark silt				

REMARKS

Water was 85' from L.S.L.

Put crimp in pipe on last drive at 11:55 a.m. From 285 to 295' This is the hardest formation I have ever found to drive pipe through. At times it acted like basalt. It took longer to drive pipe than it did to drill this formation. This formation is from 282½' to 295'. The gravel is coated with a greenish sandy cement formation with small gravel clinging to gravel held by this cement formation. Lots of the gravel has rinds 1/16" thick around them.

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128

Well No. 321-3

Driller Row

Foreman Row

Date 4/23/53

Shift _____

Depth beginning of Shift 300'

Depth completion of Shift 322'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 8:00	Driving to location.
					8:00 to 8:20	Measuring and sampling water.
8:20 to 9:45	305'	Slimy black-gray mud, some wood				
					9:45 to 10:15	Welding 6'-11" (303'-4" Over hole)
					10:15 to 10:45	Welding 6'-7" Pipe (309'-11" Over hole)
10:45 to 12:00	310'	2 ft gravel, 3 ft slimy black-gray mud-few small gravel in this mud.				
12:00 to 1:00	315'	Slimy black-gray-mud (same as above)				
1:00 to 2:00	320'	(Same as above)			2:00 to 2:30	Welding 7' Pipe (316'-11" Over hole)
2:30 to 2:50	322'	(Same as above)			2:50 to 3:20	Welding 6'-11" Pipe (323'-10" Over hole)
					3:20 to 3:40	Measuring where pipe parted. Pipe is parted 279' from L.S.L. or 43 ft from bottom of hole

REMARKS

Water was 86' from land sea level.

300 to 305' - Black-gray slimy mud. Hit some gravel at 305'. Also some woods in the 300 to 305' sample.
 305' to 307' - Gravel, sand. 307' to 322' - Black gray slimy mud. Few small gravel, very fine sand. Some pieces like shale.
 Parted pipe at 320 p.m. At 279' from L.S.L. or 43 ft from bottom.

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128

Neel No. 321-3

Driller Row

Foreman _____

Date 4/24/53

Shift _____

Depth beginning of Shift _____ 322'

Depth completion of Shift 322'

[illegible]

REMARKS

PROJECT NO. _____

Date 4/27/53

Shift

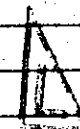
Depth beginning of Shift 322'

Depth completion of Shift 333'

REMARKS

There is 323'-10" of 8" Pipe over this hole. Parted 43' ft from the bottom.

Swaged pipe in line so I can get 8" bit past. Will drill all 8 inch hole I can so I will not have to drive the 6" Pipe so much.



DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128

Well No. 321-3

Driller Row

Foreman _____

Date 4/28/53

Shift _____

Depth beginning of Shift 333'

Depth completion of Shift 367'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
	Basalt started at 329'				7:35 to 7:50	Driving to location.
					7:50 to 8:15	Testing and sampling water.
8:15 to 10:00	335'	1 ft Basalt, 1 ft mud		and gravel.		
10:00 to 10:30	340'	Green sandy silt, mud		Basalt, gravel and chips,		
10:30 to 11:15	345'	Greenish-blue silty sand		Small gravel imbedded.		
11:15 to 12:10	350'	" " "	"	" " "	"	
12:10 to 12:35	355'	" " "	"	" " "	"	
12:35 to 2:00	360'	2 ft of above	3 ft with 4"	Gravel		
2:00 to 3:15	365'	Greenish-blue silty sand,	with some 4"	Gravel.		
3:15 to 4:00	367'	" " "	"	" " "	"	

REMARKS

This layer of basalt is about 5' thick. First inter bed starts at 334'

Water was 52.7 ft from ISL. This water is from the top of the basalt. 333' to 334'-Basalt. Took me 1½ hrs. to drill this foot. Went into a break at 334'-337'. Green sandy mud, gravel and chips of basalt. Some rotten sand stone. 337' to 357' Greenish blue silty sand with small gravel imbedded in this formation. This silty sand is more like clay.

Tools dive and stick in it. Hard to mix. 357' to 367'-Same as above except gravel up to 4" dia. Drills slow and hard. All bails good.

DRILL LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Date 4/30/53Well No. 321-3

Shift _____

Driller RowDepth beginning of Shift 367'Foreman RowDepth completion of Shift 385'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 8:00	Driving to location and gassing up.
					8:00 to 8:30	Measuring and testing for water.
8:30 to 9:45	370'			Ash-green sandy silt.		
9:45 to 12:00	375'*			Ash- Basalt grindings.*		
					12:00 to 12:20	Changing bits
12:20 to 2:00	380'*			Basalt grindings-Black mud*		
2:00 to 4:00	385'			Basalt grindings-Black mud.		

REMARKS

Water was 48.5 ft from LSL at 8:15 am.

367' to 370'-Black ash and green sandy silt.

* 370' to 385" Acts like small layer of basalt, then ash and gravel. This formation does not drill hard enough for basalt. It is an ash and silt formation almost hard enough to be shale, with gravel imbedded all through it.

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128
 Well No. 321-3
 Driller Row
 Foreman Row

Date 5/1/53

Shift _____

Depth beginning of Shift 385'Depth completion of Shift 415'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location.
					7:50 to 8:10	Testing for water. Water was 48.1'-l.s.l.
8:10 to 8:45	390'	Ash, silty sand, gravel				
8:45 to 9:45	395'	"	"	"		green silt and sand.
9:45 to 10:45	400'	Green sandy silt, sand, gravel				
10:45 to 12:15	405'	"	"	"		
12:15 to 2:15	410'	"	"	"		
2:15 to 4:00	415'	"	"	"		

REMARKS

Water was 48.1 ft from L.S.L. at 8:00 a.m.

385 to 393--ash, silty sand, gravel. 393 to 415'--layers of gravel and green sandy silt. This formation drills very slow. Hard to mix with water. Tools dive and stick. Lots of these rocks in the samples came in from about 375' from 385 to 395'--gravel bed. This gravel caves in causing tools to hangup.

DRILL LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128

Date 5/4/53

Well No. 321-3

Shift _____

Driller Row

Depth beginning of Shift 415'

Foreman _____

Depth completion of Shift 440'

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:05	Measuring water 46.3' from L.S.L.
8:05 to 9:30	420'	*Black mud, gravel**, sand**				
					9:30 to 10:15	Building up bit
10:15 to 11:20	425'	*Reddish brown mud, gravel, sand				
11:20 to 1:10	430'	*Reddish brown mud, gravel, sand		Basalt starts		
1:10 to 2:45	435'	*Soft reddish brown basalt				
2:45 to 4:00	440'	*Soft reddish brown basalt				

REMARKS

Water was 46.3' from L.S.L. at 8:05 a.m. Water is 1.8' higher than on Friday morning 5/1/53.

Gravel from 385' to 395' comes in causing tools to hang up-from 415' to 440' gravel is foreign

415' to 425'-mud is very black with ground-up basalt.

I would say that basalt started at 414'.

* Cuttings like top of gastreousth basalt or honeycomb.

** Gravel and sand and silt is coming from 385' to 395' Gravel, sand and silt is foreign.

DRILLING LOG

PROJECT NO. _____

Rig No. A.E.C. 22-3128Date 5/5/53Well No. 321-3

Shift _____

Driller RowDepth beginning of Shift 440'

Foreman _____

Depth completion of Shift 461' End of 8th Hole

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
Time	Depth	Time	Depth		Time	Explanation
					7:35 to 7:50	Driving to location
					7:50 to 8:05	Measuring and testing water.
					8:05 to 8:20	Bailing out hole
8:20 to 10:05	445'	Basalt-Honeycomb				
10:05 to 11:35	450'	"	"			
11:35 to 1:35	455'	"	"			
1:35 to 4:00	461'	"	" (Harder)			

REMARKS

Water was 45.9 ft from L.S.L. at 8:00 a.m. Water is .4 ft higher than on 5/4/53

440' to 455' - Basalt, Honeycombed. Drills fast for basalt

455' to 460' - Basalt, Heavy. More dense. Took 2½ hrs. to drill 5 ft.

Will set 6" Pipe in this basalt.



DRILLING LOG

PROJECT NO. _____

Rlg No. A.E.C. 22-3128

Date 5/6/53

Ref No. 321-3

Shift

Driller Row

Depth beginning of Shift 461' End of 8" Hole.

Foreman

Depth completion of Shift

[illegible]

REMARKS

Water was 45.2 ft from L.S.L. at 8:05 a.m. Water is .7 ft higher than on 5/5/53.

Ran swab 10 times. I pulled 400 gallons of water at each pull. It took the water level down 1.5 ft. It would recover to within 6" within 15 seconds.

Water is 45.1 ft from L.S.L. at 8:30 a.m. May 7, 1953. This looks like good water well. I don't know which formation this large water volumes comes from. This well does not make any sand. Well is cleaned out to bottom.

Does not cave.

DRILLING LOG

PROJECT NO.

RIG NO. <i>1101</i>	WELL NO. <i>56-E4C</i>	DATE <i>March 29 1964</i>	DEPTH BEGINNING OF SHIFT
DRILLER <i>C. G. V. P.</i>	FOREMAN	SHIFT <i>2:00-1:00 10</i>	DEPTH COMPLETION OF SHIFT

DRILLING		CORING		TYPE SOIL	OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH		TIME	EXPLANATION
3:30					4:30	PUTTING CAPS ON PLASTIC TUBES AND
4:30		STATIC	WATER LEVEL		5:30	TRAILING RIG DOWN LEADING C. P. H. ROAD
5:30			45 FT		6:30	MOVING TO WELL NO. 18-4P
6:30					7:30	RAILING
7:30					8:30	RAILING AND MOVING RIG TO NEAR
8:30					9:30	WELL SITE MOVING RIG.
9:30					10:30	SETTING UP RIG AND RAILING
10:30					11:30	RAILING
11:30					12:30	REACHED 456 COULD NOT GET DEEPER
12:30					1:30	RIGGING 1" PERFORATOR

REMARKS

<i>Frank</i>
<i>Frank</i>
<i>L. M. M.</i>

DRILLING LOG

PROJECT NO. JAI-197A

RIG NO. I	WELL NO. 56-E4-C	DATE June 30-64	DEPTH BEGINNING OF SHIFT 449
DRILLER Vincent	FOREMAN	SHIFT 5 am morning 3:30 pm	DEPTH COMPLETION OF SHIFT

DRILLING		CORING		TYPE SOIL	TIME	OTHER DELAYS	EXPLANATION
TIME	DEPTH	TIME	DEPTH				
5-6 am							Bail 6" Sand that come
6-7 am							
7-8 am							
8-9 am							
9:30-10:30 am							
10:30-11:30 am							
11:30-12:30 pm							
12:30-1:30 pm							
1:30-2:30 pm							
2:30-3:30 pm							

REMARKS							
Crew							
Vincent							
Batto							
Casper							

DRILLING		JG		PROJECT NO. JAT-197A	
RIG NO. I	WELL NO. 56-E4-C	DATE 9.24.30-64	DEPTH BEGINNING OF SHIFT	449	
DRILLER Vincent	FOREMAN	SHIFT 5-2 pm	DEPTH COMPLETION OF SHIFT		
DRILLING		CORING		OTHER DELAYS	
TIME	DEPTH	TIME	DEPTH	TYPE SOIL	EXPLANATION
5-6 am	Surface	8 am	6"	Clay	Drill 6" Sand then come
6-7 am	Surface	11 am	6"	Clay	Drill 6" Sand then come
7-8 am	Surface	11 am	6"	Clay	Drill 6" Sand then come
8-9 am	Surface	11 am	6"	Clay	Drill 6" Sand then come
9-10 am	Surface	11 am	6"	Clay	Drill 6" Sand then come
10-11 am	Surface	11 am	6"	Clay	Drill 6" Sand then come
11-12 pm	Surface	11 am	6"	Clay	Drill 6" Sand then come
12-1 pm	Surface	11 am	6"	Clay	Drill 6" Sand then come
1-2 pm	Surface	11 am	6"	Clay	Drill 6" Sand then come
2-3 pm	Surface	11 am	6"	Clay	Drill 6" Sand then come

REMARKS	
Excess	found 5500 Gall water
Vincent	used 870 ft tubing
Batio	6" perforation entered 6" casing OK but
Cooper	is trapped about 374 could go no further

DRILLING LOG

[illegible]

DRILLING LOG

RIG NUMBER

DRILLER

DRILLING

WELL NUMBER

FOREMAN

DATE

SHIFT

PROJECT NUMBER

DEPTH BEGINNING OF SHIFT

DEPTH COMPLETION OF SHIFT

TIME

DEPTH

TIME

CORING

DEPTH

TYPE SOIL

TIME

OTHER DELAYS
EXPLANATION

REMARKS

Cleared out on
well with air
line got down to
320 ft. air line
shots kept plugging



DRILLING LOG

HIG NUMBER

22-W

WELL NUMBER

56-E4C

DATE

1-12-76

PROJECT NUMBER

DRILLER

MARK BULTENA

FOREMAN

SHIFT

DEPTH BEGINNING OF SHIFT

DEPTH COMPLETION OF SHIFT

DRILLING

CORING

TIME

DEPTH

TIME

DEPTH

TYPE SOIL

TIME

OTHER DELAYS

EXPLANATION

cleaned out on
well with air
line air line
kept plugging
got down to 337ft.

REMARKS

DRILLING LOG

PROJECT NUMBER

RIG NUMBER

22-W

WELL NUMBER

56-E4C

DATE

1-13-76

DEPTH BEGINNING OF SHIFT

DRILLER

MARK BULTENA

FOREMAN

SHIFT

DEPTH COMPLETION OF SHIFT

DRILLING

CORING

OTHER DELAYS

TIME

DEPTH

TIME

DEPTH

TYPE SOIL

TIME

EXPLANATION

cleaned out on well
with air line had
trouble with air
line plugging got
8hrs down to 375 ft.

REMARKS

DRILLING LOG

PROJECT NUMBER

RIG NUMBER

22-W

WELL NUMBER

56-E4C

DATE

1-14-76

DEPTH BEGINNING OF SHIFT

DRILLER

MARV Bultena

FOREMAN

SHIFT

DEPTH COMPLETION OF SHIFT

DRILLING

CORING

OTHER DELAYS

TIME DEPTH

TIME DEPTH

TYPE SOIL

TIME

EXPLANATION

cleaned out on well
with air line got
well cleaned to bottom
pulled P tube and
8 hrs air line from well

REMARKS

DRILLING RECORD

Well Number 699-S6-E4C
 Coordinates P - S 006100 - E 003781
 Elevation of Casing 432.98'
 Water Level 62'
 Date 4-73
 Casing Dia 8" Length
 Driller C. H. Row
 Date of Drilling 5-5-53
 Total Depth 461'

Completion Perf. 260'-240':4 cuts/rnd,1 rnd/ft;195'-175':4 cuts/rnd,1rnd/ft		100'-45':2 cuts/rnd,1 rnd/ft. Installed 3 piezometer tubes at 449',260',190'	
Depth in Feet			
0'	Sand		
10		160	
20	20' Coarse sand,brn&wht gravel	170	
25	25' Gravel,sand		
30	30' Fine brn&wht gravel	180	
40	40' Fine gravel,sand	190	
50		200	200' 2' gravel,sand,silt,3' gravel, silt,sand
60	60' Sand,gravel	210	205' Green silt,sand,fine gravel
70		220	
80		230	230' Green silt,small shale sand,small gravel
85	85' Sand,gravel,silt		
90	90' Heavy silt,sand,gravel	240	235' 3' green silt,2'gravel & sand
100		250	245' Thick lava mud,basalt,gravel,sand
110		260	260' Sandy bluish-green silt,little gravel
120	120' Gray-blue silt,sand,gravel	270	
130		280	280' Sand,gravel,green silt
140		290	285' Basalt mud,gravel,sand
150		300	288' Hard cemented gravel,sand
			300' Dark silt

Depth
in
Feet

305'	Slimy black-gray mud	510'	
310'		520'	Recorded Water Level
320'		530'	45' 5-5-53
325'	Blue silt, gravel, sand	540'	Artesian from confined aquifer
330'	333' Basalt	550'	
340'	340' Green sandy silt mud, basalt, gravel & chips	560'	
350'	345' Greenish-blue silty sand w/ some 4" gravel	570'	
360'		580'	
370'	370' Ash, green sandy silt	590'	
375'	375' Ash, basalt grindings	600'	
380'	380' Basalt grindings, black mud	610'	
390'	390' Ash, silty sand, gravel	620'	
395'	395' Ash, silty sand, gravel, green silt, sand	630'	
400'	400' Green sandy silt, sand, gravel	640'	
410'		650'	
420'	420' Black mud, gravel, sand	660'	
425'	425' Reddish brn mud, gravel, sand	670'	
430'		680'	
435'	435' Soft reddish brn basalt	690'	
440'		700'	
445'	445' Basalt-honeycomb		
450'			
460'			
461'	461' Basalt-honeycomb		
470'	WELL COMPLETE		
480'			
490'			
500'			

C3534
C3534

WIS Interface - Survey Information - Horizontal

WELL_ID	WELL_NAME	SURVEY_CONTRACTOR	DATUM_TYPE	SURVEY_DATE	MEASUREMENT_METHOD	NORTHING	EASTING	SURVEY_UNITS	QUALIFIER
C3534	C3534	HGIS	NAD83(91)	05/21/2001	GPS	126497.485	588886.722	m	G

SCAN DATA REPORT				Request No.: 73-357		
Project No.: 65400811.1225400 CA10		Title: Ground Scans/Well Decommissioning C3534		File No.: 600C-001		
Job No.: 65400811.1225400 CA10		Prepared by: Tim Johnson		Date: 10/4/07	Reviewer: <i>Larry Kenner</i>	
DESCRIPTION OF WORK: Perform ground scans (20'x20') around staked well locations to locate possible well casings.		Page 1 of 1				
		DISTRIBUTION		SDR	SKETCH	DWG
		Survey File		OR	OR	
		E.C. Rafuse		1		
		B.J. Howard		1		
		G.G. Kelty		1		
		C.S. Wrright		1		
		W.D. Webber		1		
DATE OF FIELD INVESTIGATION: 10/1/2007						
Weather: Temp <u>70°F</u> Wind _____ MPH <input type="checkbox"/> Cloudy <input type="checkbox"/> Clear <input checked="" type="checkbox"/> P. Cloudy <input type="checkbox"/> Fog		Soil Conditions: <input type="checkbox"/> Rocky <input checked="" type="checkbox"/> Sandy <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry Depth of Investigation <u>3</u> feet				
Equipment Used: _____ 50/60 Hz detector (for energized lines) _____ Radio Frequency Electromagnetics (RF) _____ Ground Penetrating Radar (GPR) <u>X</u> Other (identify) Schonstedt metal locator		Required Functional Checks Current/Completed <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				
GPR Antenna(s) Used: <input type="checkbox"/> 1000 MHz <input type="checkbox"/> 500 MHz <input type="checkbox"/> 400 MHz <input type="checkbox"/> 300 MHz						
Documentation Provided: None						
Limits of Investigation:						
EQUIPMENT LIMITATIONS: 1. Objects made of concrete, clay pipe, PVC pipe, and fiberglass pipe are generally not detectable. 2. The transducers have a horizontal scanning limit to existing structures: the 1000 MHz is within 6 in. of an existing structure; the 500 MHz is within 1 ft. of an existing structure; the 400 MHz is within 1 ft. of an existing structure; and the 300 MHz is within 3 ft. of an existing structure.						
Discussion of Findings: Client is advised that subsurface location scanning is not 100% accurate. Client is hereby notified that equipment limitations, soil /concrete conditions, utility congestion and other factors beyond Contractor control may cause subsurface objects to be missed or incorrectly located. Client assumes such risk. It is critical that Client delegate responsibility to its employees, staff and management for application of safety controls during excavation, cutting or drilling activities to prevent physical injury or property damage. Contractor shall not be liable for any injuries or damages arising from or caused by subsurface objects.						
A strong signal was detected at Well ID C3534. Used shovel to dig ~12" below surface in signal area but did not find well.						

<input type="checkbox"/> Survey <input checked="" type="checkbox"/> Scan			SURVEY REQUEST <i>Letter 34</i> <i>Ed Rafuse</i> <i>decomm</i>			Request No.		
Project No. N/A			Title Ground Scans / Well Decomm: A8246, A8263, A8264, C3533 & C3534			File No.		
Job No. 65400811.1225400/CA10			Requested By Ed Rafuse			Date Required ASAP		
Field Contact Ed Rafuse			Organization FH			Location MO413/107/200E		
REFERENCE DOCUMENTS						GRID SYSTEM		
See attached well location map.						<input type="checkbox"/> Lambert <input type="checkbox"/> Plant <input type="checkbox"/> Area <input type="checkbox"/> Geographic		
						DISTRIBUTION		
						Survey File		
						E.C. Rafuse		
LOCATION OF WORK						WORK CONDITIONS		
Energy Northwest Plant #2 / 600A						<input type="checkbox"/> SWP <input type="checkbox"/> Mask <input type="checkbox"/> Operator <input type="checkbox"/> Exclusion Entry		
						C.S. Wright		
						W.D. Webber		

SPECIAL INSTRUCTIONS

DESCRIPTION OF WORK

- | ITEM | DESCRIPTION OF WORK |
|------|---|
| 1. | Perform ground scans (20' x 20') around staked locations of Wells in attempt to locate possible buried casings. |
| 2. | Include copy of Survey Data Report with Scan Data Report in deliverable. |

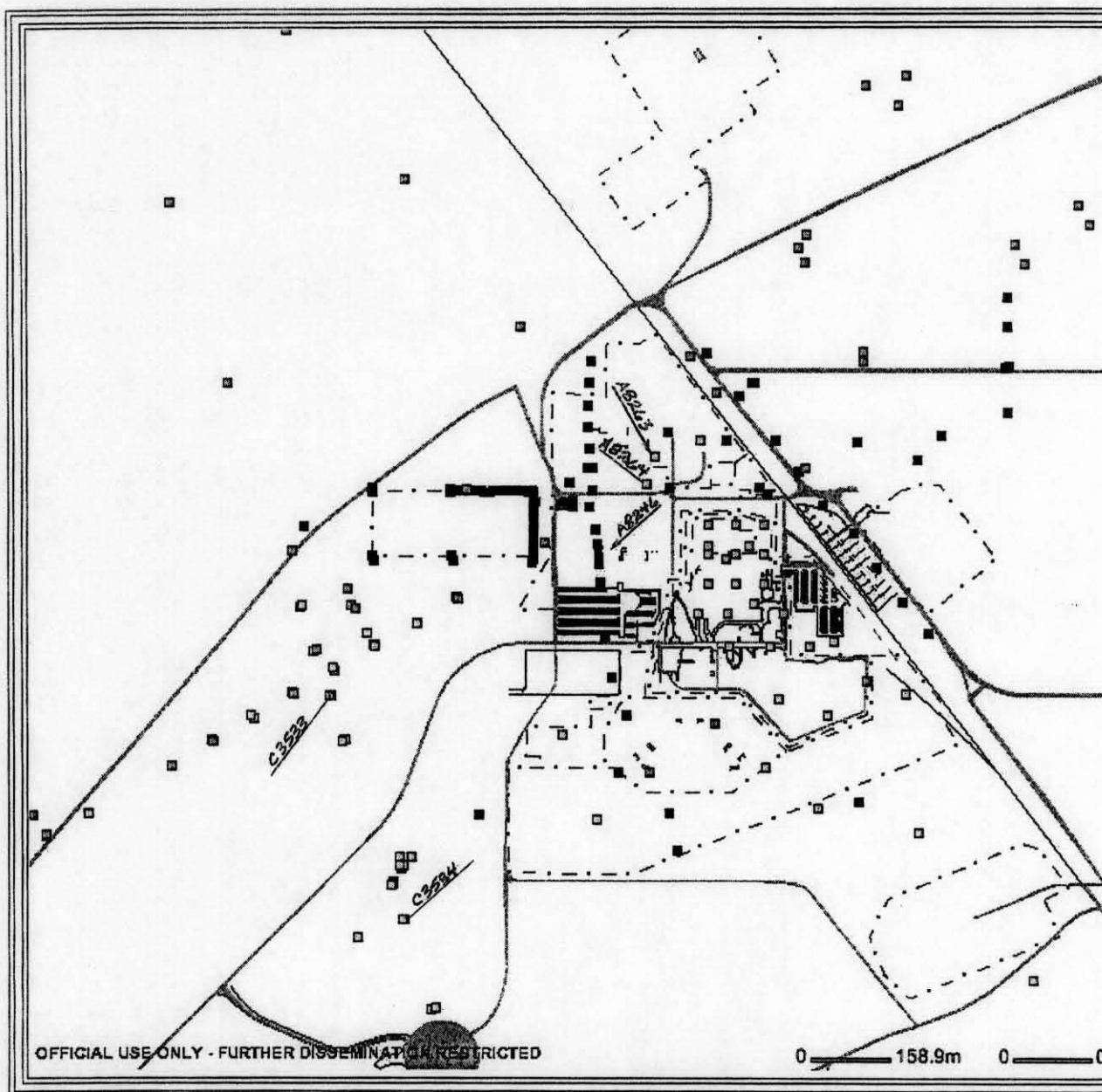
Prepared By N.P. Fastabend	Date 6/8/07	Reviewed By
-------------------------------	----------------	-------------

NOTES/COMMENTS

Lead Surveyor/Crew

Date:

Signature:



0540559

WELL SURVEY DATA REPORT

ERC Project: Well C3534		Prepared By: Jeff McTighe Company: Bechtel Hanford Inc.			
Date Requested: 05-21-2001		Requestor: Linda Dietz, John Auten			
Date of Survey: 05-21-2001		Surveyor: Jeff McTighe			
ERC Point of Contact: Linda Dietz		Survey Co. Point of Contact: Linda Dietz			
Description of Work: A GPS RTK survey was performed with a Trimble 4000ssi and the site-wide base station-related equipment. Coordinates were sampled to a "X", which was scribed on the North rim of the steel casing.		Horizontal Datum: NAD83(91)			
		Vertical Datum: NAVD88			
		Units: Meters			
		Hanford Area Designation:			
Coordinate System: Washington State Plane Coordinates (South Zone)					
Horizontal Control Monuments: BASE					
Vertical Control Monuments: BASE					
Well Name	Well ID	Easting	Northing	Elevation	
C3534	C3534	588886.722	126497.485	143.078	
Notes:					
Surveyor Statement: I, Jeff McTighe, am not a licensed surveyor.					